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tggttctggc atcctggatt atcagtqatc tggattcctc attacataqc ttqatqqtqc
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ggccactggg tggagttccc ctcgctggga tcctgtactt gtactgtaag atagtttct
                                                                       720
ccatacgtgc aatctcatca gctcagggga agtacaaggc attttccacc tgtgcatctc
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atctctcagt tgtctcctta ttttatggta ggagcctagg ggtgtacttt agttctgctc
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ctacccaaaa ctctcactca ggtgctgcag cttcagtgat gtacactgtg gtcaccccca
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tgctgaaccc cttcatctgc agtctgagga ataaagacat aaagagagct ctgaatcaat
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agtgggaacc tggggatgat gctgctgatc ctgctggact ctcgtctcca cacttccatq
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tactttttcc tcagtaacct gtctctggtg gacttttgct actcagaaac tgtcactcca
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cagatgttct tttttgcagt ctttgctact gtggaaagtt acttcttgac ttcagtggcc
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tatgattgct acagagtaat gtgtaaaccc ctacattaca ccaccaccat gacaacaaat
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gtgtgtgctt ctctggccat acatgcatgt cttaggttta ctgactgctg ctgttgacat
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<212> DNA
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ttcctgggca acatcctcat cctctttatc ataaaggaag agcagagctt gcaccagcca
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atgtactact teetgtetet tttttetgtt aatgacetgg gtgtgteett ttetacattg
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cccactgtac tggctgctgt gtgttttcat gccccagaga caacttttga tgcctgcctg
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gcccagacgt tcttcatcca cttttcctcc tggacagagt ttggcatcct actggccatg
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agtittigace actatgigge catcigtaac cogcigeget atgecacagi geteactgat
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gtccgtgtgg cccacaatgg catatccatt gtcatccgca gcttctgcat ggtattccca
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tactgtctgc atgcagacct gattcggctg ccctgtggag acactaccat caacagcatg
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aggagactac acaagatgtt attgggagct aagttctgat cgaag
                                                                      945
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<211> 989
<212> DNA
<213> Unknown (H38g757 nucleotide)
<220>
<223> Synthetic construct
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gtatttggaa acttgcttat catcctggtt atcattttat gctcccacct ccacacctcc
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atgtacttct ttctctccaa cctgtccttt gtagacatct gttttgcctc caccagggtc
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ccaaagatgc tggtgaatat ccaggcacag agcaaagtca tcacctctgc aggctgcatc
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acccagatgt acttttcat acattttgta ggattggaca gcttcctcct gactgtgatg
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gcctatgacc ggtttgtggc catctgtcac cccctgtact acacggtcat catgaaccct
                                                                       420
caactctgtg gattgcttgt tctggtatcc tggatcacaa gtgtcttgca ttccttatta
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catagettaa tggtgetgea gttgteetta tgeagagagt tggaaateee ceaettttte
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tgtgaactta atcaggtcat ccaccttgcc tgttctgaca cctttcttaa tgacatggtg
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                                                                       720
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gtaccttage teggetgeat eccaeaacte acacteaggt geaatageet eagtgatgta
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cactgtggtc accccatgc tgaacccctt catctacagc ctgaggaata aggacataaa
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gagggctctg aagaattctt tgggagggaa actagaaaag ggccagttgt cctagggctg
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aagctatatc catgattgca aggctcaaa
                                                                       989
<210> 908
<211> 960
<212> DNA
<213> Unknown (H38g758 nucleotide)
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<223> Synthetic construct
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ggaaacctgc tcatcatcct gaccatcagt tcagactccc acctccacac ccccatgtac
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ttcttcctct ccaacctgtc ctttgctgac atctgtttca catccacgac tgtcccaaag
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atatttttt tcattgcatt tggatgcctg gacaatttgc tcctgaccat gacggcctat
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gaccgcttcg tggccatctg ttaccccttg cactacacgg tcatcatgaa cccccggctc
                                                                       420
tgtggactgc tggttctggg gtcctggtgc atcagtgtca tgggttcctt gcttgagacc
                                                                       480
ttgaccattt tgaggctgtc ctcctgcaca aatatggaaa ttccgcactt tttttgtgat
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ccttccgaag tcctgaagct ggcctgttct gacaccttca tcaataacat cgtgatgtgt
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agttctgcag ttacaccacc ttctaggaca agtctggcag cctcggtgat gcacaccatg
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gtcacccca tgctgaaccc cttcatctac agcctgagga acaaggacat gaaggggtca
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<211> 981
<212> DNA
<213> Unknown (H38g759 nucleotide)
<220>
<223> Synthetic construct
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```
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                                                                       120
ggaacctgct cagcatcctg gccgtcagcc ctgactccca cctccacacc cccatgcact
                                                                       180
                                                                       240
tetteetetg caacetgtee ttgeetgaca teggttteae etecaceaeg gteeceaaga
                                                                       300
tgatcgtgga catccaatct cacagcagag tcatctccta tgcaggctgc ctgactcaga
tgtctctctc tgccattttt ggaggcatgg aagagagaca tgctcctgag tgtgatggcc
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                                                                       420
tatqaccaqt ttgtagccat ctgtcaccct ctgtatcatt cagccatcat gaacccgtgt
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ttctqtggct tcctggtttt gttgtctttt tttttctcag tcttttagac tcccagctgc
aaaacttgat cgccttacaa atcacctgct tcaaggatgt ggaaattcct aatttcttct
                                                                       540
gtgaccette teaacteece catettgeat gttgtgacae etteaceaat aacattatea
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tgtatttccc tgctgccata tttggttttc ttcccatctc ggggaccctt ttctcttact
                                                                       660
                                                                       720
ataaaattgt ttcctccatt ctgagggttt catcatcagg tgggagctat aaagccttcg
ccacctgtgg atctcacctg tcagttgttt gctgatttta tggaacaggc gttggagggt
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acctcagttc agatgtgtcg tcttccctga gaaagcgtgc agtggcctca gtgatgtaca
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cagtggtcac ccccatgctg aatcccttga tctacagcct gagaaacagg gatattaaag
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gtgtcctgtg gcagccgtgc agccgcacgg cagcacagtc tcatctcaat atcttatctg
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ttccattcct tttgcaggat g
<210> 910
<211> 628
<212> DNA
<213> Unknown (H38g760 nucleotide)
<220>
<223> Synthetic construct
<400> 910
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ttqqqaaata qtqctattat tctqqtctct caactagatt cccaacttca tagtcctatg
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tattteette teaceagtet tteegtetta tatetetgtt teaceaceae aacagtacet
                                                                       300
caaatgctgt tcaatttagg gggcccaaca agaacatcac ttaaataggc tgtatggccc
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aggectatgt atttcactgg ctagectgta ttgaatgtgt cettettgge ategtggeet
tagactgcta tgtggctgtc tgtaagcctc caaggtacac tataatcata gaccataagg
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caacaatcac aattcagttg cccctgtaga ggtgtatagc tcagatcttc ctttagttag
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agtetgteac ctaacagtet ctaactgtaa caacetttga gatetgetac agcattetat
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<210> 911
<211> 945
<212> DNA
<213> Unknown (H38g761 nucleotide)
<220>
<223> Synthetic construct
<400> 911
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ggaaatgccc tcattatcct ggccatcatc acggactctc acctccacac acccatgtac
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atgctagcga acatccaggc tcagagcaga gccatcccct ttgtgggctg cctcacccag
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atgtatgcct tccacctgtt cgggaccatg gacagctttc tcctggcagt aatggccatc
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gaccgcttcg tggccattgt ccacccacag cgttacttgg ttctcatgtg ctcccctgtc
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tgtgggctgc tgctgggagc atcatggatg atcaccaacc tccagtctct catacacacc
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tgcctcatgg ctcaactgac cttctgcgcc ggctctgaaa tctcccactt cttctgtgac
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ctcatgcccc tgctgaagct ctccggctca gacacgcaca ccaacgagct ggtgatcttt
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gcttttggca ttgtcgtggg caccagccca ttctcctgca tccttctctc gtacatccgc
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attttctgga cagtctttaa gatcccttct actcggggca agtggaaagc cttctccacc
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                                                                       780
                                                                       840
cageccacat eccecagete eteccagaag gacaaggeag eegeeetaat gtgtggggtg
ttcatcccca tgctcaaccc ctttatctac agcatacgga acaaggatat gaaggcagcc
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ctggggaagc tcatcggcaa agtggccgtc ccctgtccta ggcca
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<210> 912
<211> 949
<212> DNA
<213> Unknown (H38g762 nucleotide)
<220>
<223> Synthetic construct
<400> 912
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agcaacctga gcatggtggc gctggtgaga tccgacgggg ccctccgctc ccccatgtat
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tacttcttgg gtcacctgag cctcgtggac gtctgcttta ccaccgtcac ggtccccagg
ctgctggccg gcctgctcca cccgggccag gccatatcct tccaggcgtg ctttgccgag
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atgtacttct tegtggetet gggeateace gagagetace teetggegge catgteetac
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gaccgcgcga cggcggcgtg ccggcccctg cgctacggcg cgctggtgac gccatgggcg
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tgcgcctcgc tggtgcgtgc gtcgtgggcc gtgacgcacc tgcactcgct gctgcacacg
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tccgagggcc tggccgtggt gttggccccg ctgctcctcg tgttcctttt cctacgcgcg
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cccacctagt ggcggtggcg gtggcgcttt tctttggctc tgtcctctcc gtgtatttcc
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cgccgtcgtc tgcctactca gcccgctacg accgcctggc cagcgtggtc tacgctgtca
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                                                                       900
tcacqccqac cttqaaccct ttcatcaaca gccttcgcaa caaagaggtc aagggcgccc
                                                                       949
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<211> 936
<212> DNA
<213> Unknown (H38g763 nucleotide)
<220>
<223> Synthetic construct
<400> 913
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ggaaacatcc tcattgtgtt ttctgtgacc actgaccctc acttacactc ccccatgtac
tttctactgg ccagtctctc cttcattgac ttaggagcct gctctgtcac ttctcccaag
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gacagatatg tggccctatg taagcccctc cactatctga ccattatgag cccaagaatg
                                                                       420
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tgcctttcat ttctggctgt tgcctggacc cttggtgtca gtcactccct gttccaactg
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gcatttcttg ttaatttagc cttctgtggc cctaatgtgt tggacagctt ctactgtgac
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tcagctcaca gcacagtggt ccttttgttc tttggtccac ccatgtttgt gtatacacgg
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ccacaccta attcacagat ggacaagttt ctggctattt ttgatgcagt tctcactcct
                                                                       840
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tttctqaatc caqttqtcta tacattcagg aataaggaga tgaaggcagc aataaagaga
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<210> 914
<211> 954
<212> DNA
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<213> Unknown (H38g764 nucleotide)
<220>
<223> Synthetic construct
<400> 914
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ggcaacaccc tcaccattct cctcatctgc attgatcccc agcttcatac accaatgtat
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ttcctgctca gccagctctc cctcatggat ctgatgcatg tctccacaac catcctgaag
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atggctacca actacctatc tggcaagaaa tctatctcct ttgtgggctg tgcaacccag
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cactteetet atttgtgtet aggtggtget gaatgtttte tettagetgt catgteetat
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                                                                       420
gaccgctatg ttgccatctg tcatccactg cgctatgctg tgctcatgaa caagaaggtg
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ggactgatga tggctgtcat gtcatggttg ggggcatccg tgaactccct aattcacatg
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gcgatcttga tgcacttccc tttctgtggg cctcggaaag tctaccactt ctactgtgag
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ggctcccacc tcacggtggt ttctctttgg tttggtgcct gcatcttctc ctacatgaga
cccaqqtccc agtgcactct attgcagaac aaagttggtt ctgtgttcta cagcatcatt
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acgcccacat tgaattctct gatttatact ctccggaata aagatgtagc taaggctctg
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agaagagtgc tgaggagaga tgttatcacc cagtgcattc aacgactgca attg
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<210> 915
<211> 309
<212> DNA
<213> Unknown (H38g765 nucleotide)
<223> Synthetic construct
<221> misc_feature
<222> (1)...(309)
<223> n = A,T,C or G
<400> 915
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ctggcccgcg gagcatcgga gacactaccg agaaccagat gttcgccgcc cgcgtggtca
                                                                       180
tectgetget geegtttgee gteatectgg cetectaegg tgeegtggee gagetgtetg
ttgtatgcgg ttcagcggag gccggagagg gcggtgggca cgtgtgggtc ccactgacag
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ccgtctgcct gttctacggc tcggcatcta cacctacctg cagcccgcgc agctaacaac
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                                                                       309
caggcacgg
<210> 916
<211> 313
<212> DNA
<213> Unknown (H38g766 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(313)
<223> n = A,T,C or G
<400> 916
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gtggccatct gccacccact gcgccatgct gcagtgctca acaatacagt aacagcccag
                                                                       120
                                                                       180
attggcatcg tggctgtggt ccgcggatcc ctctttttt tcccactgcc tctgctgatc
                                                                       240
aagcggctgg ccttctgcca ctccaatgtc ctctcgcact cctattgtgt ccaccaggat
gtaatgaagt tggcctatgc aagacanttt gcccaatgtg gtatatggtc ttaactgncc
                                                                       300
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```
313
attttggttg gtc
<210> 917
<211> 960
<212> DNA
<213> Unknown (H38g767 nucleotide)
<220>
<223> Synthetic construct
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gggaacetge teateateet ggeeatatge teagaeteee acctecacae ecceatgtae
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ttcttcctct ccaacctgtc ttttgctgac ctctgtttta cctccacgac tgtcccaaag
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atgttactga atatactgac acagaacaaa ttcataacat atgcaggctg tctcagtcag
atttttttt tcacttcatt tggatgcctg gacaatttac tcttgaccgt gatggcctat
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gaccgcttcg tggccgtctg tcaccccctg cactatacgg tcatcatgaa cccccagctc
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tgtggactgc tggttctggg gtcctggtgc atcagtgtca tgggttccct gctcgagacc
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ttgactgttt tgaggctgtc cttctgcacc aaaatggaaa ttccacactt tttttgtgat
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ctacttgaag teetgaaget egeetgttet gacacettea ttaataaegt ggtgatatae
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                                                                       660
tttgcaactg gcgtcctggg tgtgatttcc ttcactggaa tatttttctc ttactataaa
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agttctgcag ccacaccatc ttctaggaca agtctggtgg cctcagtgat gtacaccatg
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qtcacccca tgctgaaccc cttcatctac agcctgagga acacggacat gaagagggcc
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aatggcatga tettgggget catetgtetg gateceagae tgegeaeeee catgtaette
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ttcctgtcac acttggccgt cattgacata tactatgctt ccagcaattt gctcaacatg
ctggaaaacc tagtgaaaca caaaaaaaac tatctcgttc atctcttgca ttatgcagat
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ggctttgtat ttgacttttg ctgctgcagt gtgcatgatt ttggtggtga tgtcctatga
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cagatttgtg gcgatctgcc atcccctgca ttacactgtc atcatgaact ggagagtgtg
                                                                       480
cacagtactg gctattactt cctgggcatg tggattttcc ctggccctca taaatctaat
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tctgtctgtc ctcaaactgg cctgtgcaga cacctggatt aatgaaattt ttgtctttgc
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cctcttggcc atcctgaaga tccagtcaaa ggagggccgc aaaaaaagcct tttccacctg
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cccagacaac agtcaacgac agaagcagca gaaaattctc accctgtttt acagcctttt
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caacccattg ctgaaccccc tcatctacag cctgcggaat gctcaagtga agggtgcctt
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<211> 957
<212> DNA
<213> Unknown (H38g769 nucleotide)
<220>
<223> Synthetic construct
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gggaacctgc tcatcatcct ggccacaatc tcagactccc acctccacac ccccatgtac
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ttcttcctct ccaacctqtc ctttgctgac atttgtgtta cttccaccac cattccaaaa
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atgctgatga acatccagac acagaacaaa gtcatcacct acatagcctg cctcatgcag
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atgtattttt tcatactctt tgctggattt gaaaacttcc tcctgtccgt gatggcctat
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gaccggtttg tggccatctg tcacccctg cactacatgg tcattatgaa ccctcacctc
tgtggactgc tggttctagc atcctggacc atgagtgctc tgtattcctt gctacaaatc
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tttacagttg cgctgctggg tggaggtccc ctgactggga tcctttactc ttactctaag
                                                                       660
ataatttctt ccatacatgc aatctcatca gctcagggga agtacaaggc attttccacc
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tgtgcatctc acctctcagt tgtctcctta ttttatggtg caatcctagg ggtgtacctt
                                                                       780
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agttctgctg ccacccgcaa ctcacactca agtgcaacag cctcagtgat gtacactgtg
                                                                       900
gtcacccca tgctgaaccc ctttatctat agtctgagga ataaagacat aaagagggct
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ctgggaatac atttgttgtg gggaacaatg aaagggcaat ttttcaagaa gtgccca
<210> 920
<211> 222
<212> DNA
<213> Unknown (H38g770 nucleotide)
<223> Synthetic construct
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gacgtcatac tggcctccta aggtgccgtg gcccgagctg tctgttgcat gcggttcagc
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ggaggaccga ggagggcgct gggcacgtgt gggtcccacc cgacagccgt ctggctgttc
                                                                       180
                                                                       222
taaggctcgg gcaaataaac ctatctgcaa gccgcgcagc ta
<210> 921
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<212> DNA
<213> Unknown (H38g771 nucleotide)
<223> Synthetic construct
<400> 921
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ccagaattgc aggccttcct ctttgggctg ttcctgtcca tgtacctggt cactgtgctc
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gggaacctgc tcatcatcct ggccacaatc tcagactccc acctccacac ccccatgtac
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                                                                       300
atgctggtga acatccagac acacaacaaa gtcatcacct atgcaggctg catcacccag
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atgtgctttt tcttactctt tgtaggattg gataacttcc ttctgaccgt gatggcctat
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gaccggtttg tggccatctg tcaccctctg cactacatgg tcattatgaa ccctcaactc
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ttaatggtgt tgccactgcc cttttgtaca cacatggaaa tccctcattt tttctgtgaa
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ttcgcagtag cgctgctggg cggtggtccc ctcactggga tcctgtactc ttactctaag
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agttetgetg ccacccacaa ttcacacaca ggtgetgeag ceteagtgat gtacactgtg
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qtcacccca tgctqaaccc cttcatctac agtctgagga ataaacacat aaagggtgct
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atgaaaacat tcttcagagg aaagcaa
<210> 922
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<211> 246

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<213> Unknown (H38g772 nucleotide)
<223> Synthetic construct
<400> 922
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ctcatctcac tggactccag actccacacc cccatgtact tcttcctctc acacctggcc
                                                                     180
                                                                     240
gtcgtcaaca tcgcctatgc ctgcaacaca gtgccccaga tgctggtgaa cctcctgcat
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ccagcc
<210> 923
<211> 648
<212> DNA
<213> Unknown (H38g773 nucleotide)
<220>
<223> Synthetic construct
<400> 923
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ggcagcaagt ccatttctat ggctggttgt gtcacacaaa ttttcttcta tatatcactg
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totggototg aatgttttot tttggotgtt atggottatg accgctatat tgctatttgc
                                                                     180
caccetetaa gatataceaa teteatgaat eetaaaattt gtggaettat ggetaeette
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tectggatee tgggetetae agatggaate attgatgetg tagecacatt tteettetee
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360
                                                                     420
tcatgcaatg acacatcaat atttgaagag gttattttca tctgctgtat agtaatgctt
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gttttccctg ttgcaatcat cattgcttcc tatgctcgag ttattctggc tgtcattcac
atgggatctg gagagggtcg ttgcaaagct ttcacgacct gttcctctca cctcatggtg
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gtgggaatgt actatggagc agetttgttc atgtacatac ggcccacatc tgatcactcc
                                                                     648
ccaacgcagg acaagatggt gtctgtattc tacaccatcc tcactccc
<210> 924
<211> 916
<212> DNA
<213> Unknown (H38g774 nucleotide)
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<223> Synthetic construct
<400> 924
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ccagaattgc agcccttctt ctttgggctg ttcctgtcca tgtacctggt caccgtgctc
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                                                                     180
gggaacctgc-tcatcatcct ggccacaatc tcagactccc-acctccacac ccccatgtac
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ttcttcctct ccaacctgtc ctttgcagat atcagttttg tgtctaccac tgtcccgaag
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atgctggtga atatccagac gcagagcaga gtcatcacct atgcaggctg catcacccag
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gateggtttg tggccatetg teatectetg tactacaeaa teateatgaa eceteagtte
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tatagactgg attettagtg teetgaatte tetgttacaa agettaatgg tgttgccact
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gcccttctat acagacatag caatccccca ctttttctgt gaacttaatc agataatctg
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cattgcctgt tctgacacct ttcttaatga catcatgata tattgtgcaa ctgtgctgct
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gggcggtggt cccctcactg gaatccttta ctcttactct aagatagttt cctccatacg
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tgcaatctca tcagctcagg ggaagtacaa ggcattttcc acctgtgcat ctcacctctc
agttgtctcc ttgttttatg gtacaagcct aggaatgtac cttagttctg ctgcaaccca
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caactcaccc tcaagtgcaa cagcctcagt gatgtacact gtggtcaccc ccatgctgaa
cccctttatc tacagtctga ggaataaaga cctaaaggat gctctgaaac gcttcttcag
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```

<210> 925

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<211> 360
<212> DNA
<213> Unknown (H38g775 nucleotide)
<220>
<223> Synthetic construct
<400> 925
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acctttctgt tttccacttt tgctgtcaca gaatgtttcc tcctggtggt gaagtccaat
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                                                                       240
gatttgtacg tggccatctg ccaccctcc cgatatttgg ccatcatgac ctggagagtc
tgcatcaccc tcgcggtgac ttcctggacc actggagtcc ttttatcctt gattcatctt
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gtgttacttc tacctttacc cttctgtagg ccccagaaaa tttatcactt tttttgtgaa
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<210> 926
<211> 643
<212> DNA
<213> Unknown (H38g776 nucleotide)
<223> Synthetic construct
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acagcagagt catctcctat gcaggctgcc tgactcagat gtctctcttt gccatttttg
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gaggcatgga agagagacat gctcccgagt gtgatggcct atgaccggtt tgtagccatc
                                                                       180
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tqtcaccctc tatatcattc agccatcatg aacccgtgtt tctgtggctt cctagttttg
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cttcaagaat gtgggaattc ctaatttcct ctgtgaccct tctcaactcc cccatctcac
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atgttgtgac accttcacca atcacataat catgtatttc cccgctgcca tatttggctt
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tetteccate teggggacee ttttetetta ceatgtaatt gttteeteea ttetgagggt
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ttcatcatca ggtgggaagt ataaagcctt ctccacctat gggtctcacc tgtcagatgt
                                                                       540
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ttcctgattt tatggaacag gcgttggagg gtacctcagt tcagatgtgt catcttcccc
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gagaaagact gcagtggcct cagtgatgta cgcagtggtc acc
<210> 927
<211> 498
<212> DNA
<213> Unknown (H38g777 nucleotide)
<220>
<223> Synthetic construct
<400> 927
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atacacatgc tectetttgg getettetac etgttetatg tetteaceet getggggaat
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                                                                       180
gggaccatcc tggggctcat ttcactggac tccatactcc acacccccat gtacttcttc
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ctataacacc tgtccgtcgt caacatcgcc tatgcctgca acacagtgcc ccagatgctg
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qtqaacctcc tqcattcaqc caagcccatt tactttgctg gctgcatgac atataccttt
ctctttttga gatttgcaca tactgaatgc ctcctgttgg tgctgatgtc ctacgattgg
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tacgtggcca tcttgacacc tctccgatat atcatcatta tgacctgtaa agtcttcatc
                                                                       420
                                                                       480
atctctgcca tcactttcat gtacatgtgg ttcctttctg tcttggtcca tgtaagcctc
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atactaagac tgcctttt
<210> 928
<211> 276
<212> DNA
<213> Unknown (H38g778 nucleotide)
<220>
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<223> Synthetic construct
 <400> 928
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 tctaagaggc cattatcttt ttcttggtag caggatgcta ccttggtggg ttagttaaga
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 tggtcactgt gacaacttcc atcacacaac tatcgctttg tcaaccatgt gtccacctgc
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 <212> DNA
 <213> Unknown (H38g779 nucleotide)
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ggagatatgg agagetteet tettgtggte atggeetatg acceptatgt ggeeatetge
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tcctgctcag acacttatgt taatgagttg atgatattta tcatgggagg gatcatcagt
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attattccat ttctactcat tgttatgtct tatgtaagga tttttttctc cattctcaag
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gttccatctt ctcaggacat ccacaaggtc ttctctacct gtggttccca tctgtctgtg
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gtgaccttgt tttatgggac aattattggt ctctacttat gtccatcagg caataattct
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<210> 930
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<212> DNA
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<223> Synthetic construct
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cttttgtttt ttggagatct tgagagcttc ctccttgtgg ccatggccta tgaccgctat
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                                                                       420
gggcttgttg ttatacttcc atttctactc atcacagtgt cttatgcacg catcatctcc
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tccattctca aggtcccttc aactcaaggc atccacaagg tcttctccac ttgtggttct
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cacctgtctg tggtgtcact gttctatggg acaattattg gcctctactt atgtccatct
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gctaataact ctactctaaa ggacactgtc atgtctatga tgtacaccgt ggtaact
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<210> 931
<211> 942
<212> DNA
<213> Unknown (H38g781 nucleotide)
<220>
<223> Synthetic construct
<400> 931
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ctgcagatcc cactettcat agtetteett tteatetace teateactet ggttgggaac
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                                                                       240
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aactccagcc atttcatggg cacagacaaa atggcatctg tgttctatgc catagtcatt
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cccatgttga atccactggt ctacagcctg aggaacaaag aggttaagag tgcctttaaa
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<210> 932
<211> 562
<212> DNA
<213> Unknown (H38g782 nucleotide)
<220>
<223> Synthetic construct
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acctggcctt gattgctcta attggctgaa attcatacct tcccacccc aagctctgtt
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ttettteace cagteettee etgateteta ttgteetgtt tgeaceecea gaatgeteat
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                                                                       300
qacttttqta tcaaaqaaaa acatcttcta tgtcaggtgc atgactcagc tgtcgcagct
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tttctttctc tttattgtcc tactctatta aataccacgt gttgatgttc atagcctgtg
gttgcttagt ggccatctac aatccatcat tgcatgaggt caccatgtct cctcaggtga
                                                                       420
gagagagaga gagagtggat ttgctggaac cactcccaca cagggcacat acttaggccg
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aacttgtgta atattgatgt catcaatcat catcttatga cagcctcttg gtcctctaag
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tttcttgtac cagcacctgt gc
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<210> 933
<211> 933
<212> DNA
<213> Unknown (H38g783 nucleotide)
<223> Synthetic construct
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gcctggaacc tctccctcat tgttttaata aggatggatt cccacctcca tacacccatg
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tatttcttcc tcagtaacct gtccttcata gatgtctgct atatcagctc cacagtcccc
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cagtacttta tettttcaac gatgggactg agtgagtett gtetcatgac agccatgget
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attggtgctt tgcttcaact ccacttctgt gggtctaatg tcatcagaca tttcttctgt
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gacatgccc aactgttaat cttgtcctgt actgacactt tctttgtaca ggtcatgact
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qctatattaa ccatqttctt tgggataqca agtgccctag ttatcatgat atcctatggc
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tatattggca tctccatcat gaagatcact tcagctaaag gcaggccaaa ggcattcaac
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acctgtgctt ctcatctaac agctgtttcc ctcttctata catcaggaat ctttgtctat
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ttgaggtcca gctctggagg ttcttcaagc tttgacagat ttgcatctgt tttctacact
gtggtcattc ccatgttaaa tcccttgatt tacagtttga ggaacaaaga aattaaagat
                                                                       900
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gccttaaaga ggttgcaaaa gagaaagtgc tgc
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<211> 935
<212> DNA
<213> Unknown (H38g784 nucleotide)
<220>
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actttttcct tagtaatctg tcgtttctgg acatctgcta tgtttccact atagccccca
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960
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gctatgacac ctttttctgt caagtcatga catccatgct tacagtggta tttggactca
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ς.

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tecteceace tetgegtggt gggaetette tttggcagtg ceateateat gtacatggce
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<211> 942
<212> DNA
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ctgacaccac tgctgaatct gcttatctac agtttgcgaa atagtgagat gaagagggct
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ctggtgaacc tectgcatec agecaagece ateteetttg egggeegeat gatgeagace
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tttctgtttt ccacttttgc tgtcacagaa tgtctcctcc tggtggtgat gtcctatgat
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ttctcccacc tctgtgtgat tggactcttt tatggcacag ccattatcat gtatgttgga
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cccagatatg ggaaccccaa ggagcagaag aaatatctcc cgctgtttca cagcctcttt
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ggaaatgcca tcattacagt catcatctcc ttaaaccaga gcctccacgt tcccatgtac
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atgtatttca tccttctttt tggtgggact gaatgttttc tcctgggagc gatggcttat
                                                                       360
gaccgatttg ctgcaatttg ccatcctctg aactacccag tgattatgaa cagagggtt
                                                                       420
tttatgaaat tagtaatatt ctcatggatc tcagggatca tggtggctac tgtgcagacc
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acttgggtat ttagttttcc attttgtggc cccaatgaaa ttaatcatct cttctgtgag
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aatttcctca ttgtggtgct ggtctccact gatgctgccc tccagtcccc tatgtacttc
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ttcttcttcc tcttctttgg cgccacggag tgctgcctcc tggcagccat ggcctatgac
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cgctatgcag ccatctgtga acccctccgc tacccactgc tgctgagcca ccgggtgtgt
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ctacagctag ctgggtcggc gtgggcctgt ggggtgctgg tggggctggg ccacacccct
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ttcatcttct ctttgccctt ctgcggcccc aataccatcc cgcagttctt ctgtgagatc
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cctaaggcca gctacgatcc ggccactgac cctctggtgt ccctcttcta tgctgtggtc
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acccccatcc tcaaccccat catctacagc ctgcggaaca cagaggtcaa agctgcccta
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gtcatcatga gccctcagct ctgtggactg ctggttctgg tgtcctggat catgagtgtc
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<210> 943
<211> 950
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the second secon

<212> DNA

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ctggggatga tcatattaat cctgctggac tctcatctcc acactcccat gtactttttt
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gcagtcatta ctctgacctg ctctgagaaa cacattagtg agttgattct tgttcttata
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PCT/US00/27582 WO 01/27158

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780
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<213> Unknown (H38g807 nucleotide)
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<211> 983
<212> DNA
<213> Unknown (H38g812 nucleotide)
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The second of th

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953
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actettteaa teeteeatee atgttgettt taettteeat eteteettet gteattetaa
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tgtggttaat cactttttt gtgatattcc accactctta gctctttctt gctctgatat
                                                                       480
ttacgcacat gagattgtgc tcttcatatt ggcagcattt aatatctttt tcactctctt
gattatcttg aactcttatg tttttatttt tattgctatc ctgaggatgc attcagctga
                                                                       540
gggacaaaag aaggtetttt ccacetgtge etateacete actaetgttt ccatetteta
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tgggacaatc acctttatgt acttacagcc aagttctggt cattccatgg acacagacaa
                                                                       660
aatctcatct gtgttctaca ccatggtcat ccccatgctt aaccctctag tctatagcct
                                                                       720
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gggcttagcc tactattta
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<210> 972

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 <213> Unknown (H38g822 nucleotide)
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 <400> 972
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gtggcaacac agccatcatc tgggttgtgt gcacatacag cgttctccga accccaatgt
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attictictt giccaaccig teetitgiag agaictgeta caccaccgit giggigeeet
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tgatgctttc caacattttt ggggcccaga agcccattcc attggctgga tgtggggccc
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aaatgttett ettteteaca ettggtggtg etgactgttt eetettggeg ategtggeet
                                                                       360
atgaccgcta tgtggccatc tgccaccctt tgcactaccc ctcatcatga cctgcaatct
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gtgcgtgcag atgctgggcg gcgctgtggg cctggccctc ttcctctcc tgcagctcac
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egecttaate tteacettge cettetgegg etacegecag gaaattaace actteetetg
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cgatgtacct cccgtcctgc gcctggcctg cgctgccatc cgtgttcacc aggctgtcct
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ctatgtcgtg agcatcctcg tgctgaccgt ccccttcttg ctcatctgcg tctcctacgt
                                                                       660
gttcatcacc tgtgccatcc tgagcatccg ttctgctgag ggccgccacc aggccttctc
                                                                       720
cacctgetee teccacetea cegtggteet getgeagtat ggetgetgtg cettggcata
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cttgcatccc cagtccagct cctctgcaga tgaggatcgc cagtttgccc ttgtttacac
                                                                       840
ctttatcaca ccattactca accetttgat ttacaceett aggaacaagg atgtcaaagg
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tgcccttgaa aaaagtgctc agtaccaaag ggacacctga gtcctt
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<210> 973
<211> 936
<212> DNA
<213> Unknown (H38g823 nucleotide)
<220>
<223> Synthetic construct
<400> 973
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ttggggatga tcattttgat tctctggtac tctcagctcc acaatccaat gtacttcttc
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ttcagtaatc tgtctctggt agactttttt tactcttcag ttgtcactcc aaaggtcatg
                                                                       240
actgggctcc ttagagaaga caaaatcatt tcctatactg tgtgggctac tcagacattc
                                                                       300
ttttctgatt cctttgccag tgtggtaaat ttattattgg ccttaatggc ctctggccac
                                                                       360
tatgcagcag tgtgcaaacc cctgcattac accaccacca tgatgacaag tgtgtgtaca
                                                                       420
tgtctggcca taggttgata cgttggtggt ttcctgaatg cctccattca cactggggaa
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acattcagtc tctttctgta tgtccagtga agtccatcac tttttctgtg aggttccagc
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agtcatggct ctgtcttgct ctgatagaca tgtgaatgta gtggttcttg tttatgtaac
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cageteaata teetettige cettetagtt atettgatat cetaettatt gatgtttate
                                                                       660
accatectaa agatgeacte aactgeagga taccagaagg etttggeeat ttgtgeetet
                                                                       720
cacctcactg cagttgccat cttctatggg actattatct tcatgcatat acagcccagc
                                                                       780
tccagtcatt ccattgacac agacaaaatt gcagctgtgt tttatactat tgtcttcccc
                                                                       840
atggtgaacc atgtggtcta aagattgaag aacaaggtga agagtacatt caagaaaatt
                                                                       900
gttgagaagg taaaattgtc cctaggattg tgagtt
                                                                       936
<210> 974
<211> 954
<212> DNA
<213> Unknown (H38g824 nucleotide)
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<223> Synthetic construct
<221> misc_feature
<222> (1)...(954)
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<223> n = A,T,C or G

```
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                                                                       120
                                                                       180
qqtaactccc tgatcatcct cctcacacag gtcagccctg ccctgcactc ccccatgtac
ttcttcctgc gccaactctc agtggtggag ctcttctaca ccactgacat cgtgcccagg
                                                                       240
                                                                       300
accetggeca atetgggete eccgeatece eaggecatet ettteeaggg etgtgeagee
cagatgtacg tcttcattgt cctgggcatc tcggagtgct gcctgctcac ggccatggcc
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tatgaccgat atgttgccat ctgccagccc ctacgctatt ccaccctctt gagcccacgq
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gcctgcatgg ccatggtggg tacctcctgg ctcacaggca tcatcacggg ccaccaccca
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                                                                       540
tgcctccctc atcttctctc taccttttcg cagccacccg atcatcccgc actttctctg
tgacatcctg ccagtactga ggctggcaag tgctgggaag cacaggagcg agatctccgt
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gatgacagee accatagtet teattatgat eccettetet etgattgtea ectettacat
                                                                       660
                                                                       720
ccgcatcctg ggtgccaatc tagcaatggg cctcacccag agccgccgca agtcttctcc
                                                                       780
acctgetect eccatagget egtggtetet etettetttg ggacagecag cateaennae
aaccggccgc aggcaggctc ctctgaaacc acagaccgcg tcatcagtct cttcnacaca
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gtcatcacac ccatgctcaa ccccatcata aacacccacg ggaacaagga cgtgaggagg
                                                                       900
gccctgcggt acttggtgaa gaggcggcgc ccctcgccgg gaaggggctc gggt
                                                                       954
<210> 975
<211> 933
<212> DNA
<213> Unknown (H38g825 nucleotide)
<220>
<223> Synthetic construct
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aaccctaagc tgcagaaacc tctctttgcc atcttcctca tcatgtacct actcactgcg
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gtggggaatg tgctcatcat cctggccatc tactctgacc ccaggctcca cacccctatg
                                                                       180
                                                                       240
tacttttttc tcagcaactt gtctttcatg gatatctgct tcacaacagt catagtgcct
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aagatgctgg tgaattttct atcagagaca aagattatct cttatgtggg ctgcctgatc
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cagatgtact tetteatgge atttgggaac actgacaget acetgetgge etetatggee
atcgaccggc tggtggccat ctgcaacccc ttacactatg atgtggttat gaaaccatgg
                                                                       420
                                                                       480
cattgcctac tcatgctatt gggttcttgc agcatctccc acctacattc cctgttccgc
                                                                       540
gtgctactta tgtctcgctt gtctttctgt gcctctcaca tcattaagca ctttttctgt
gacacccage etgtgetaaa geteteetge tetgacacat cetecageca gatggtggtg
                                                                       600
                                                                       660
atgactgaga cottagetgt cattgtgace coetteetgt gtaccatett etectacetg
caaatcatcg tcactgtgct cagaatcccc tctgcagcca ggaagtggaa ggccttctct
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acctgtggct cccacctcac tgtagtggtc ctgttctatg ggagtgtcat ctatgtctat
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tttaggcctc tgtccatgta ctcagtgatg aagggccggg tagccacagt tatgtacaca
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qtaqtqacac ccatqctqaa ccctttcatc tacagcctga ggaacaaaga tatgaaaagg
                                                                       933
ggtttgaaga aattaagaca cagaatttac tca '
<210> 976
<211> 390
<212> DNA
<213> Unknown (H38g826 nucleotide)
<223> Synthetic construct
<400> 976
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ctccaggtgg cagttttcac ctttctttc cttgcgtatt tactcagcat ccttggaaat
ctgactatcc tcatcctcac cttgctggac tcccaccttc agactcccat gtatttcttt
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ctccggaact tctccttctt ggaaatttcc ttcacaaaca tcttcattcc aagggtcctg
                                                                       240
                                                                       300
attaqcatca caacagggaa caagagtatc agctttgctg gctgcttcac tcagtatttc
                                                                       360
tttgccatgt tccttggggc tacagagttt taccttctgc tgccattcct atgaccgcta
```

and the second contract of the second contrac

```
390
tgtgccatct gcaaactgat gactatgcac
<210> 977
<211> 933
<212> DNA
<213> Unknown (H38g827 nucleotide)
<223> Synthetic construct
<400> 977
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aaccetcage tgcagaaace tetetttgce atetteetea teatgtacet getegetgeg
                                                                       120
gtggggaatg tgctcatcat cccggccatc tactctgacc ccaggctcca cacccctatg
                                                                       180
tacttttttc tcagcaactt gtctttcatg gatatctgct tcacaacagt catagtgcct
                                                                       240
aagatgctgg tgaattttct atcagagaca aaggttatct cctatgtggg ctgcctggcc
                                                                       300
cagatgtact tetttatgge atttgggaac actgacaget acctgctgge etetatggee
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ategacegge tggtggccat etgeaacece ttacactatg atgtggttat gaaaceaegg
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cattgcctgc tcatgctatt gggttcttgc agcatctccc acctacattc cctgttccgc
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gtgctactta tgtctcgctt gtctttctgt gcctctcaca tcattaagca ctttttctgt
                                                                       540
gacacccage ctgtgctaaa geteteetge tetgacacat cetecageca gatggtggtg
                                                                       600
atgactgaga cottagotgt cattgtgacc coettootgt gtatcatott etectacetg
                                                                       660
                                                                       720
cgaatcatgg tcactgtgct cagaatcccc tctgcagccg ggaagtggaa ggccttctct
acctgtggct cccacctcac tgcagtagcc cttttctatg ggagtattat ttatgtctat
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tttaggcccc tgtccatgta ctcagtggtt agggaccggg tagccacagt tatgtacaca
                                                                       840
                                                                       900
gtagtgacac ccatgctgaa ccctttcatc tacagcctga ggaacaaaga tatgaagagg
                                                                       933
ggtttgaaga aattacagga cagaatttac cgg
<210> 978
<211> 939
<212> DNA
<213> Unknown (H38g828 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(939)
<223> n = A,T,C or G
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agetttcagg tggctgtttt tctgctccct gatgcttgcc ataccttgtg actgtctctg
                                                                       120
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ggaacctgaa tcatcatcag ccatgacctt gctggacacc cgcatgcaga catctatgta
                                                                       240
cttatttctc cagaatctgt cctgcttaga aatttgttcc agacagtcat cgtgcccaag
                                                                       300
atgctgctca acattgccat ggggaccaag accgttagct ttgctgggtg cattacccag
gactttttcc acatcttctg ggggccacag agttcttcct cctgacagcc atggcctatg
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accagtatat tgccatctgc aagcccctcc actaccccat gctcataagt agtagagtct
                                                                       420
gcacacaget catectcace tgetggetae taggtttete etteateate atgeetgtea
                                                                       480
tcctgaccag tcagcttcca ttctgtgata cccacatcaa gcatttcttc tgtgactaca
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cgcctctaat ggaggtggtc tgcagtgggc caaaggtgct ggagatggtg gattttaccc
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                                                                       660
tggccttagt agcactgttt ggcaccttgg tactcatcac cctgtcctat gtccagatca
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tccagacaat tgtcagaatc cccgctgtcc aggagaggaa gaaggctttc tctacctgtt
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cctctcatgt cattatggtt accatgtgtt atgacagctg cttctttatg tatgtcaagc
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cctctccagg aaagtgggtt gatgtcaaca angggagtgt ctctaatcaa tacaattatt
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gccccactgt taaatccctt catctgtact ctgaggaacc aacaagttaa gcaggtaatg
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aaagacctag tcagaaaaat gactttgtcc gaaaataaa
<210> 979
<211> 951
<212> DNA
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<213> Unknown (H38g829 nucleotide)
<220>
<223> Synthetic construct
<400> 979
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atcacaaatc gctgggacct gcgtgtggcc ctcttcctga cctgcctgcc tgtctacctg
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gtgagcctgc tgggaaacat gggcatggcg ctgctgatcc gcatggatgc ccggctccac
                                                                        180
acacetatgt acttetteet ggecaacete teeetgetgg atgeetgeta tteeteegee
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ateggeecca agatgetagt ggacetgetg etgeecegag ecaceatece ttacacagee
                                                                        300
tgtgccctcc agatgtttgt ctttgcaggt ctggctgata ctgagtgttg cttgctggca
                                                                        360
gccatggcct atgaccgcta cgtggccatc agaaacccac ttctctatac aacagctatg
                                                                        420
tegeagegte tatgeetgge ettgetggga geateaggee tgggtgggge agtgagtgee
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tttgttcaca caaccetcac cttccgcctg agettctgcc gctcccggaa gatcaatagc
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ttcttctgcg atatccctcc actgctggcc atctcgtgca gtgacaccag tctcaatgaa
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ctccttctct tcgccatctq tggcttcatc cagacagcca cggtgttagc tatcacggtq
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tettatgget teategetgg ggetgtgate caeatgeget eggtegaggg eagteggega
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gcagceteca ceggtggtte ceaceteaca geegtggeea tgatgtaegg gacaeteatt
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ttcatgtacc tgcgccccag ctccagctat gccctggaca ctgacaagat ggcctctgtg
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ttctataccc tggtcatccc gtctctcaac ccactcatct acagcctccg caataaggag
                                                                        900
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<210> 980
<211> 948
<212> DNA
<213> Unknown (H38g830 nucleotide)
<220>
<223> Synthetic construct
<400> 980
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tcttccatca gacagttaaa tattttcctc tttatgataa ttttagtttt ctacatctta
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actgtttctg gaaacatcct cattgtcctt ctagttttag tcagacatca tctccacacc
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cctatgtact tcctcctggt gaacttgtcc tgtctggaga tctggtatac ctctaacatc
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atccccaaaa tgttgctgat tatcatagct gaatagaaga ctatctctgt ggctggctgg
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ctggcacaat totacttott cggatocotg gotgccacgg agtgcctott gotcactgtg
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atgtcctatg atcgctacct agccatctgc cagcctcttt gctaccgtgt cctcatgact
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ggcccccttt gcatcaggct agctgctggc tcttggttct gctgcttcct ccttacagca
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atcaccatgg tettgetatg tagactaacc ttetgtggac cetatgaaac tgatcactte
                                                                       540
ttttgtgact tcacccctct ggttcatctc tcctgcatgg atacctcagt gactgagacc
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attgeetttg ceacetette tgeagtaact etgateceat tteteeteat tgtageetee
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                                                                       720
tactcctgcg tcctttctgc tatcctaaga atcccatctt gcacaggcca gaaaaaggcc
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ttctccacct gctcttccca cctcactgtg gtcatagtgt tttatgggac actgattgcc
acatacettg tgccctcage caactcatee caactettgt gcaaagggte etetetgete
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tacatcatcc tgacacccat gtttaacccc atcatttata gcctgagaaa tagagacatc
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catgaagctc tgaagaagtg cttgaggaag aagtcaggtg tttgcctt
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<210> 981
<211> 925
<212> DNA
<213> Unknown (H38g831 nucleotide)
<220>
<223> Synthetic construct
<400> 981
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cctgatgtgc aaaaagcatt atttgtaatg tttttactca catacaatgt gactatggtg
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ggcaaccttc tcattgtggt gaccattatt gccatcgcct ccttggactc cccagtgtcc
                                                                       180
```

```
ttcttcctcg catgcctgtc atttattgat gctgtatatt ccacttcctt ttcccctaag
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ttgatgatag acttactctg tgataaaaaa gactgtttct ttcctggctt gcatgggcca
                                                                       300
gctatttata aactacccat ttggtggtat tgaggtcttt cttttggtgg gtatggcctg
                                                                       360
tgatcactat gtggacatct gtaagctact gcactatttg accatcatga actggcaggt
                                                                       420
ttgcatcctc ctgtttatgg tggctgtgac tggaggtttt tgcattctat gtttcaaatt
                                                                       480
gttgttgtgt acagtctccc tttctgtggc cccaatgtca ttgaccattt tgtgacatgt
                                                                       540
                                                                       600
acccattatt ggaaatggtg tgcactgaca cttactttat aggcctcact gtgattgcca
atggtggage agtctgtatg gtcatcttca tccttctact aatctcctat ggagtcatcc
                                                                       660
taaactccct taaaacttat agtcaggaag gcgggcataa agccctgtct acctgcagct
                                                                       720
                                                                       780
ccaacattac tgttgtgtcc ccttttttga tccctgtatt ttcatctatg ttagacctga
ttcaaacttt cctattgata aattcatgac tgtgttttat acaattatca cacccatgtt
                                                                       840
gaatccatta atatacacac tgagaaattt agaggtgaga attgctgtga aaaatctctg
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                                                                       925
gtgtaaaaac taaactatag taaga
<210> 982
<211> 958
<212> DNA
<213> Unknown (H38g832 nucleotide)
<220>
<223> Synthetic construct
<400> 982
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tgggagatgc atcetttet tttttggtte ttetetgtgt tetacatggg aattateetg
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gaaaatetet teattgtgtt cacagtaatt attgaetete atttaaatte eecaggtaet
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gcctactggc caacatttat cttcttgatc tgggtcttct cctacagttc tgactttttc
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tetgtaagee tececattae etgaceacaa tgaaceecaa aatgtgtgtt taetttgttg
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gaggcatcct ggatagtcag gataatccat gctgtatctc agtttgtttt tgccataaac
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ttgccttttt gtggccctaa tagagtaggt agttttcact gtgattttcc ttatgtcatg
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aaacttgctt gtgtagacac ttacaaacta gaggttgtag tcactgctaa cagtgggctt
                                                                       600
atatccatag ctacctgttt cttattaata atatcctata ttttcatttc ggtaaccgtc
                                                                       660
tagaatcett etteaggaga ettatetaaa geatttgtgt eatgttagat eacateaeag
                                                                       720
                                                                       780
tagggatttt gttttttatg ccatgtatat ttctctatgt gtagcctttg cctaaaacaa
cacatgatta atatttgttc attgttcctt ttgctatcac ccctgtctag gatctacaca
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ttaagaaaca aagacatgaa cgtctccatg gaaagactgg gaaaatggat tgcaggttct
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                                                                       958
agcaggatgt cataataaat ggtgcatatc cagagtgcaa gatgattcag tctcacca
<210> 983
<211> 927
<212> DNA
<213> Unknown (H38g833 nucleotide)
<220>
<223> Synthetic construct
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cetgaggtee agatgetgat ttttgtggte tteetgatga tgtatetgae cageeteggt
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ggaaatgcta caattgcagt cattgttcag atcaatcatt ccctccacac ccccatgtac
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tttttcctgg ctaatctggc agttctagaa atcttctata catcttccat caccccattg
                                                                       300
gccttggcaa acctcctttc aatgggcaaa actcctgttt ccatcacggg atgtggcacc
cagatgtttt tctttgtctt cttgggtggg gctgattgtg tcctgctggt agtcatggct
                                                                       360
tatgaccggt ttatagcgat ctgtcaccct ctgcgataca ggctcatcat gagctggtcc
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ttgtgtgtgg agctgctggt aggctccttg gtgctggggt tcctgttgtc actgccactc
                                                                       480
accattttaa tettecatet eccattetge cacaatgatg agatetacea ettetaetgt
                                                                       540
gacatgcctg cagtcatgcg cctggcttgt gcagacacac gcgttcacaa gactgctctg
                                                                       600
                                                                       660
tatatcatca getteategt cettageate ecceteteat tgatetecat etectatgte
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ttcatcgtgg tagccatttt acggatccgg tcagcagaag ggcgccagca agcctactct
```

```
acctgctctt ctcacatctt agtggtcctc ctgcagtatg gctgcaccag ctttatatac
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 ttgtccccca gttccagcta ctctcctgag atgggccggg tggtatctgt ggcctacaca
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 tttatcactc ccattttaaa ccccttgatc tatagtttga ggaacaagga actgaaagat
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 gccctaagga aagcattgag aaaattc
                                                                        927
 <210> 984
 <211> 987
 <212> DNA
 <213> Unknown (H38g834 nucleotide)
 <223> Synthetic construct
 <400> 984
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atcctgggaa acctcttcat tgtgttcaca gtgatctttq atcctcactt acactccccc
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atgtatattc tgctggccaa cctatcgctc attgacttga gcctttcatc taccacagtt
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cctaggttga tctacgatct ttttactgat tgtaaagtta tttccttcca taattgtatg
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atacaaaagt tetttateca tgttacggga ggagttgaaa tggtgctgct gatagtcatg
                                                                       360
gcatatgata ggtacactgc gatctgcaaa cctctccact atccaactat tatgaatccc
                                                                       420
aaaatgtgca tgtttttggt agcagcagct tgggtcattg gggtgattca tgctatgtct
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cagtttgttt ttgtcataaa tttacccttc tgtggcccta ataatgtggg gagcttttat
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tgtgattttc ctcgggttat taaacttgca tgcatggaca cttatgggct agaatttgtg
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gtcactgcca acagtggatt catatcgatg ggcaccttct ttttcttaat tgtatcatac
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attituatic tggtcactgt ccaacgacat tcctcaaatg attituccaa agcattcttc
                                                                       720
acttcgtagg ctcacatcac cgtagtggtt ttgttttttg ctccatgcat gtttctctac
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gtgtggcctt tccctactaa gtcattggat aaattttttg ccatcatgaa ctttgttgtc
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acccctgtct taaatcctgc catctatact ttaaggaaca aagatatgaa gtttgcaatg
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agaaggctga atcaacatat tttaaattct atggagatga cataacacat ttggttgatg
                                                                       960
agagcacagg ataaatgcca tggacca
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<210> 985
<211> 770
<212> DNA
<213> Unknown (H38g835 nucleotide)
<223> Synthetic construct
<400> 985
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                                                                       120
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tgtggaggcc agatgttctt cttcatcttc ctgggaaggg ctgactgcat cctgctggcc
gtcatggcct ttgactggtt tgtggccatc tgttgtcctc tctgttacgg cctcatcatg
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agctggaggt tgtgtgtcca gctgaccctg gggtctctgc tgttggggtt cttcttagcc
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atgcagctga ccgtgcttat cttccaactc cctttatgca gcagcaaaga aatcagcacg
                                                                       360
ttctactgtg atgtcctccc tgtcatgaga ctggcctgtg cagatacctg ggtccatgag
                                                                       420
gccactatgt ctatggtcag caccaccttt ctcaccgtcc ccttcctgct catcactctt
                                                                       480
tectatgtet ccatcatgge egecatettg aagatttget etgeagaggg gaggeacaag
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gccttctcca cctttcctcc cacctgactg tggttctcct ccaggactga tgtacacgcc
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tegeettett gtgteecage tetagetaet ateetgagag gggeeaggea gtgtetgtgg
                                                                       660
tttacacctt cattacccct gtgctgaacc ctttgatcta cagcatgagg aacacagaac
                                                                       720
ttaaggatgc tttgaagaga gcaatgacga gggtcccgct gctctaaaca
                                                                       770
<210> 986
<211> 915
<212> DNA
<213> Unknown (H38g836 nucleotide)
<220>
```

ŝ

## <223> Synthetic construct

```
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                                                                        60
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                                                                       120
acagtggtat ctgactcca ccttcactct cccatgtact tcctgctagc caacctctca
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ctcattgatc tgtctctgtc ttcagtcaca gcccccaaga tgattactga ctttttcagc
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cagcgcaaag tcatctcttt caagggctgc cttgttcaga tatttctcct tcacttcttt
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ggtgggagtg agatggtgat cctcatagcc atgggctttg acagatatat agcaatatgc
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aaacccctac actacactac aattatgtgt ggcaacgcat gtgtcggcat tatggctgtc
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gcatggggaa ttggctttct ccattcggtg agccagttgg cctttgccgt gcacttaccc
                                                                       480
ttctgtggtc ccaatgaggt cgatagtttt tattgtgacc ttcctagggt aatcaaactt
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gcctgtacag atacctacag gctagatatt atggtcattg ctaacagtgg tgtgctcact
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gtgtgttctt ttgttcttct aatcatctca tacactatca tcctaatgac catccagcat
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tgccctttag ataagtcgtc caaagctctg tccactttga ctgctcacat tacagtagtt
                                                                       720
cttttgttct ttggaccatg tgtctttatt tatgcctggc cattccccat caagtcatta
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gataaattcc ttgctgtatt ttattctgtg atcacccctc tcttgaaccc aattatatac
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acactgagga acaaagacat gaagacggca ataagacggc tgagaaaatg ggatgcacat
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tctagtgtaa agttt
                                                                       915
<210> 987
<211> 958
<212> DNA
<213> Unknown (H38g837 nucleotide)
<220>
<223> Synthetic construct
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gaaaatctct tcattgtgtt cacagtaatt attgactctc atttaaattc cccaggtact
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gcctactggc caacatttat cttcttgatc tgggtcttct cctacagttc tgactttttc
                                                                       240
actaactgca gcatcatttc ttttccaaga tgcatgatac agatattttt catttgtgtc
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atgcgtaaaa attgagatgg tgctgctcat aaccatggca tagagcaggt acactgccaa
                                                                       360
tctgtaagcc tccccattac ctgaccacaa tgaaccccaa aatgtgtgtt tcctttgttg
                                                                       420
gaggcatcct ggatagtcag gataatccat gctgtatctc agtttgtttt tgccataaac
                                                                       480
ttgccttttt gtggccctaa tagagtaggt agttttcact gtgattttcc ttatqtcatq
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aaacttgctt gtgtagatac ttacaaacta gaggttgtag tcactgctaa cagtgggctt
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atatccatag ctacctgttt cttattaata atatcctata ttttcatttc ggtaaccgtc
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tagaateett etteaggaga ettatetaaa geatttgtgt eatgttagat eacateaeag
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cacatgatta atatttgttc attgttcctt ttgctatcac ccctgtctag gatctacaca
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ttaagaaaca aagacatgaa cgtctccatg gaaagactgg gaaaatggat tgcaggttct
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<210> 988
<211> 982
<212> DNA
<213> Unknown (H38g838 nucleotide)
<223> Synthetic construct
<400> 988
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                                                                       120
aagtettgge atateetete catageattt etageaatet atgtggttae eecagtaggt
                                                                      180
aatattggaa tgatcctact tatcaaaatt gatgcttctc ttcatatccc catgtaaatt
                                                                       240
ttcctccaac acttggcatt tgttgatctc tgttacacct ctgctatcac tcccaagatg
                                                                      300
ttgaaaaact ttgtagaaac aaaaaaatct atctcatgta taggatgtat ggtgcaatta
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360

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 gttatgtggc cttctgtaac ccactccatt atccaggggt tatgtcccag agactctqca
                                                                        480
 ttaagctatt agttagttca tatgtcatgg gtttcctaaa tgcctctata aacataagtt
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                                                                        600
 ctccaattat tgccctacca tgctccaata ttgacctcaa catcatqtta ttaacaqtat
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 ttgtgggatt aaatttgatg tgcactgtga tggtggtcat catttcctgc atatatgtcc
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 tggttgccat cctgaggata tcttctgctg cagggaagaa aaaagtctct ctacatgtgc
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ctcccacctg acagcagtca ccattttcta tggggttctc tcttacatgt atctatgcca
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 tcgtattaat gagtctcaaa aacaagaaaa agtggcctct gtgttttatg gcattattat
                                                                       900
tcccatgtta aaccccttga tttacagcca gagaaaccaa gatgtgattg aagccataaa
                                                                       960
actaacagaa aaaaagtatt tc
                                                                       982
<210> 989
 <211> 1006
<212> DNA
<213> Unknown (H38g839 nucleotide)
<220>
<223> Synthetic construct
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                                                                       120
atgttgcacc aagaagcett gttggacact tcacetttgg gcccacagte tggcaagate
                                                                       180
ccttcctcca tattccaatg tatttatttt tatttttttg gcattgacta tgttggaaat
                                                                       240
tggctactcc accaacattt ctcctccaac actggctacc gtcctttaca tggggaagat
                                                                       300
gettatetee etecetgget atggaactea gatgetettt gteateettt tgagaggate
                                                                       360
tgagtgtgtc ttgcttgctg tcatggctta tgataggtat ataaccatct gtcatccatt
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caattacaat ctcatcatga gtgggtagct ctgtgggcag atgactttgg gctctttgag
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gctgggattc ctgttgtcac tgtttttgac tatgttgatc tgacaccctc cattctgtgg
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cctaatgaaa cctaccactt cttctgtgac atgcccacag caagtgcctg gtctgtgcag
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acaccacatg catgagtcag ctctctgact tccgtgtggc caccatcacc atccccttcc
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ttcctccttg tctgcctccc ctatggctgc cttgcagcca ccatcttgag gatgcattca
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gctaagagaa agcactaggc cttctctacc agttcctccc acctcattgt ggttctcctg
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aagtattggt gttgcatcct catctgcctt tgccccagct ctagttactc cccagaggag
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ggctgggagg tatctcttgt tcacatgttt ttctcccggt gtggaatccc ttgatctata
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gcgtatggaa ccaagacgta actgatgcag tagagagact tgtggcaaga atgtccttgt
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<212> DNA
<213> Unknown (H38g840 nucleotide)
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<223> Synthetic construct
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caatccttgg aaatgcagtt tttccttttt ctcttcttct ctttattcta tgtgggaatt
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atcctgggaa acctcttcat tgtgttcaca gtgatctttg atcctcactt acactcccc
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cctaggttga tctacgatct ttttactgat tgtaaagtta tttccttcca taattgtatg
                                                                       300
atacaaaagt tetttateca tgttacagga ggagttgaaa tggtgctgct gatagteatg
                                                                       360
gcatatgata ggtacactgc gatctgcaaa cctctccact atccaactat tatgaacccc
                                                                       420
aaaatgtgca tgtttttggt agcagcagct tgggtcattg gggtgattca tgctatgtct
                                                                       480
cagtitigtti tigicataaa titaccctic tgtggcccta ataatgtggg gagcttttat
                                                                       540
tgtgattttc ctcgggttat taaacttgca tgcatggaca cttatgggct agaatttgtg
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gtcactgcca acagtggatt catatcgatg ggcaccttct ttttcttaat tgtatcatac
                                                                       660
atttttattc tggtcactgt ccaacgacat tcctcaaatg atttatccaa agcattcttc
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acttcgtagg ctcacatcac cgtagtggtt ttgttttttg ctccatgcat gtttctctac
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```

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gtgtggcctt tccctactaa gtcattggat aaattttttg ccatcatgaa ctttgttgtc
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                                                                        900
agaaggctga atcaacatat tttaaattct atggagatga cataacacat ttggttgatg
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agagcacagg ataaatgcca tggacca
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<210> 991
<211> 736
<212> DNA
<213> Unknown (H38g841 nucleotide)
<220>
<223> Synthetic construct
<400> 991
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aacctgctca ttatcctggc catcagttct gactccacc tccacaagcc tatgtacttc
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ttactctcca aattgtccat ggctgccatt tgttttgtct tcaccatgat ccaaaagatg
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atggtaaacc tcagggcaca gagcaaagac atctttactc agccaagtgg tagtccaatt
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ccattctaaa tgtgtagtct tatcagattt cttctaattc agcagaaatc tgttgtttta
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atcttcgaat actcactggt tctaattctc ctatttgaat ctgaagatgt aaactaatta
                                                                       420
ttcttttgta tgagcctttc aaaataattg aagacagtta tgtccttttc ttgataatca
                                                                       480
ccatactttc ttcacactaa ttgatacaca attgttaata agtcatggat tttctactca
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aacaaccttt attctatcat cttatgcttc tggttatgca acagttgact ctcaatgctt
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tatttatttt ttaaacatga tgattactat taacctcttt gtaagattta aaaatatctt
                                                                       660
tatgcacagt agtatctcaa taaattacaa ctattattt aaaaaataaa ataaaggtgg
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tatctatgag atatat
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<212> DNA
<213> Unknown (H38g842 nucleotide)
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<223> Synthetic construct
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acagtggtat ctgactccca ccttcactct cccatgtact tcctgctagc caacctctca
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ctcattgatc tgtctctgtc ttcagtcaca gcccccaaga tgattactga ctttttcagc
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cagcgcaaag tcatctcttt caagggctgc cttgttcaga tatttctcct tcacttcttt
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ggtgggagtg agatggtgat cctcatagcc atgggctttg acagatatat agcaatatgc
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gcatggggaa ttggctttct ccattcggtg agccagttgg cctttgccgt gcacttaccc
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ttctgtggtc ccaatgaggt cgatagtttt tattgtgacc ttcctagggt aatcaaactt
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gcctgtacag atacctacag gctagatatt atggtcattg ctaacagtgg tgtgctcact
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gtgtgttett ttgttettet aateatetea tacaetatea teetaatgae cateeageat
                                                                       660
egecetttag ataagtegte caaagetetg tecaetttga etgeteacat tacagtagtt
                                                                       720
cttttgttct ttggaccatg tgtctttatt tatgcctggc cattccccat caagtcatta
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gataaattoc ttgctgtatt ttattctgtg atcacccctc tcttgaaccc aattatatac
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acactgagga acaaagacat gaagacggca ataagacggc tgagaaaatg ggatgcacat
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tctagtgtaa agttt
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<210> 993
<211> 927
<212> DNA
<213> Unknown (H38g843 nucleotide)
<220>
<223> Synthetic construct
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<400> 993
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                                                                       120
gggaacctgg gcatgatcac tctaatttgt ctgaactctc agctgcacac ccccatgtac
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tactttctca gcaatctgtc actcatggat ctctgctact cctccgtcat tacccctaag
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atgctggtga actttgtgtc agagaaaaac atcatctcct acgcagggtg catgtcacag
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ctctacttct tccttgtttt tgtcattgct gagtgttaca tgctgacagt gatggcctac
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gaccgctatg ttgccatctg ccaccctttg ctttacaaca tcattatgtc tcatcacacc
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ageteceace ttgcageegt gggaatgtte tatggateaa etgeatteat gtaettaaaa
                                                                       780
                                                                       840
ccctccacaa tcagttcctt gacccaggag aatgtggcct ctgtgttcta caccacggta
atccccatgt tgaatcccct aatctacagc ctgaggaaca aggaagtaaa ggctgccgtg
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cagaaaacgc tgaggggtaa actgttt
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<210> 994
<211> 930
<212> DNA
<213> Unknown (H38g844 nucleotide)
<223> Synthetic construct
<400> 994
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ggactgcgga tccccctctt cttcctgttt ctgggtttct acacggtcac cgtggtgggg
                                                                       120
aacctgggct tgataaccct gattgggctg aactctcacc tgcacactcc catgtacttc
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ttettettet gettettigt egtetetgag teetteatee tgteagegat ggegtatgae
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cgctacgtgg ccatctgtaa cccactgttg tacacagtca ccatgtcttg ccaggtgtgt
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                                                                       480
ttgctccttt tgttgggtgc ctatgggatg gggtttgctg gggccatggc ccacacagga
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cttcctctcc ttgagctctc ctgcaacagc tcttacatga atgagctggt ggtctttatt
gtggtggctg ttgacgttgg aatgcccatt gtcactgtct ttatttctta tgccctcatc
                                                                       660
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ctctccagca ttctacacaa cagttctaca gaaggcaggt ccaaagcctt tagtacttgc
agttcccaca taattgtagt ttctcttttc tttggttctg gtgctttcat gtatctcaaa
                                                                       780
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cccctttcca tcctgcccct cgagcaaggg aaagtgtcct ccctgttcta taccataata
gtccccgtgt taaacccatt aatctatagc ttgaggaaca aggatgtcaa agttgccctg
                                                                       900
                                                                       930
aggagaactt tgggcagaaa aatcttttct
<210> 995
<211> 473
<212> DNA
<213> Unknown (H38g845 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1) ... (473)
<223> n = A,T,C or G
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gtccagcatc tggggaatgt ccttttcctg gtgcacctgc tggcatacct ggcctccatc
                                                                       120
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atggcaaaca tgctcataat caccatcacc tgggctgacc atcacctcca gacacctatg
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240
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ctcatgcagt ccccttttca tttttatntt cttgggtcaa cagtttttct tcccttaatg
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gctgtgatgt ccccttggat tgatacctgg ccatttgcaa gcctctgcat tactccacca
                                                                       420
tcatgagcct gaggactagc ttccacaagg tcactgcctg gctttgtcct ggg
                                                                       473
<210> 996
<211> 998
<212> DNA
<213> Unknown (H38g846 nucleotide)
<220>
<223> Synthetic construct
<400> 996
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                                                                       120
                                                                       180
ctggggaacc tgctcatcat cctggccgtc agccctgact cccacctcca cacccccatg
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tacttcttcc tctccaacct gtccttgcct gacatggttt cacctccacc atggtcccca
agatgattgt ggacatccaa tctcacagca gtcatctcct atgcgggctg cctgactcag
                                                                       300
                                                                       360
atgtctcttt ttgccatttt tggaggcatg gaagaaagac atgctcctga gtgtgatggc
cctatgaccg gtttgtagcc atctgtcacc ctctatatta ttcagccatc atgaacccat
                                                                       420
gtttctgtgg ctttctagtt ctgttgtctt gttgtctcag tcttttagac tcccagctgc
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acaatttgat tgccttgcaa attacctgct tcaaggatgt ggaaattcct aatttcttct
gtgaccette teaacteece caccatgegt gttgtgacac etteaceaat aacatagtea
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<210> 997
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<212> DNA
<213> Unknown (H38g847 nucleotide)
<223> Synthetic construct
<400> 997
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gtggtaatgc taatctttcc agtttcagtt atcatacttt cctattccca tgtccttcga
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geogteatee acatgggete tggggaaagt cgtcgcaagg cetteactae etgeteetee
caccegtetg tggteggact ctactaeggt getgetatgt teatgtacat gagaceaget
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<210> 998
<211> 342
<212> DNA
<213> Unknown (H38q848 nucleotide)
<220>
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<223> Synthetic construct
<400> 998
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getettatea ttttgtteat tttcateect gttgtttete tattttteac tecatgegta
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gttctctatg tttggcctac tttgccacca tcacttgata aaaatatgtt cattgttgac
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gtagcacttt gaaatttgca tgaaaagaga acttattcca gc
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<210> 999
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<212> DNA
<213> Unknown (H38g849 nucleotide)
<220>
<223> Synthetic construct
<400> 999
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gcatggggaa ttggctttct ccattcggtg agccagttgg cctttgccgt gcacttaccc
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gcctgtacag atacctacag gctagatatt atggtcattg ctaacagtgg tgtgctcact
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cgccctttag ataagtcgtc caaagctctg tccactttga ctgctcacat tacagtagtt
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gataaattcc ttgctgtatt ttattctgtg atcacccctc tcttgaaccc aattatatac
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acactgagga acaaagacat gaagacggca ataagacagc tgagaaaatg ggatgcacat
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tctagtgtaa agttt
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<210> 1000
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<212> DNA
<213> Unknown (H38g850 nucleotide)
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<223> Synthetic construct
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tetecactee eccatettge atgttgtgae acetteacea ataacataat catgtattte
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gggtctcacc tgtcggttgt ttgctgattt tatggaacag gcgttggagg gtacctcggt
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teagatgtgt catetteece gagaaagagt geagtggeet eagtgatgta caeggtggte
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acccccatg
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<210> 1001
<211> 986
<212> DNA
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<213> Unknown (H38g851 nucleotide)
<220>
<223> Synthetic construct
<400> 1001
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atcctgggaa acctcttcat tgtgttcaca gtgatctttg atcctcactt acactccccc
atgtatattc tgctggccaa cctatcgctc attgacttga gcctttcatc taccacagtt
                                                                       240
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cctaggttga tctacgatct ttttactgat tgtaaagtta tttccttcca taattgtatg
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atacaaaagt totttatoca tgttacggga ggagttgaaa tggtgctgct gatagtcatg
gaatatgata ggtacactgc gatctgcaag cctctccact atccaactat tatgaatccc
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aaaatgtgca tgtttttggt agcagcagct tgggtcattg gggtgattca tgctatgtct
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cagtttqttt ttgtcataaa ttaaccttct gtggccctaa taatgtgggg agcttttatt
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gtgattttcc tcgggttatt aaacttgcat gcatggacac ttacgggcta gaatttgtgg
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gaaggctgaa tcaacatatt ttaaattcta tggagacgac ataacacatt tggttgatga
                                                                       960
                                                                       986
gagcacagga taaatgccat ggacca
<210> 1002
<211> 659
<212> DNA
<213> Unknown (H38g852 nucleotide)
<220>
<223> Synthetic construct
<400> 1002
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ataatgaagc ttgcctgtgc agacactact atcaaggagt ttattacttt gctcatcagt
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                                                                       480
ctctgtgtcc ttgttctgcc catggtattg atcttcatct cctatgtcct aattgtcacc
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accatectea agattgeate agetgaggge ggagaaagge etttgetaet tgtgeeteae
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cccaaaattc cctgcaggac agacttatct ctgtgacata cactgttatt actcctctg
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<210> 1003
<211> 939
<212> DNA
<213> Unknown (H38g853 nucleotide)
<220>
<223> Synthetic construct
<400> 1003
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cccaaaatgt tgggcatctt ctggttcaat accaaagaaa tatcttttgg aggctgcctt
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                                                                      360
totcacatgt tottcatcca tttcttcact gotatggaga gcattgtgtt ggtggccatg
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geetttgace getacattge catttgeaaa cetetteggt acaccatgat ceteaceage
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aaaatcatca gcctcattgc aggcattgct gtcctgagga gcctgtacat ggttgttcca
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aggatectgt atgetgtett etgeetgeee teetgggaag etegaeteaa ageteteaae
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acctgtggtt ctcatattgg tgttatctta gcctttttta caccagcatt ttttcattc
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cgagagagag tgctgaggat ttttctcaag accaatcac
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<212> DNA
<213> Unknown (H38g854 nucleotide)
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aaatttactg agtttttctg agtacctaat gagttaaaaa atatgggagc atatgtagta
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ctgtgcttgt atcaatatgg ataaggtatc tggaagtctt ttctgaacat ctttcggtgc
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aggtagtatg atacacttgg tetetttgtt getgecaatg atgggtteaa etgeetgtta
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cagtggctgt gctttacacc atgataacgc ctacattaaa ccctttagtc taaccctcag
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<210> 1005
<211> 927
<212> DNA
<213> Unknown (H38g855 nucleotide)
<220>
<223> Synthetic construct
<400> 1005
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etgeteattg tggttaccat taccaccage caggetetga getececcat gtaettette
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gcagaacaca tttttggtgc tactgagatc atcctgctga cagtgatggc ctgtgactgc
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adagtatggc tgcccttctg tggccccaat gtcataggcc acttcatgtg tgacttgtac
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ccattgttaa aacttgtttg catagacact cataccettg gtetetttgt tgetgtgaac
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agigggttta tetgettatt aaactteett atettggtgg tateetatgt gateatettg
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agatetttaa agaacaatag ettggagggg aggtgtaaag ceeteteeae etgtatttet
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cacatcatag tagttgtctt attetttgtg ccctqtatat ttgtgtatet gcgctcagtg
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accactctgc ccattgataa agctgttgct gtattttata ctatqqtqqt cccaatgtta
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aatcccgtgg tctacacact cagaaatgct gaggtaaaaa gtgcaataag gaagctttgg
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<211> 738
<212> DNA
<213> Unknown (H38g856 nucleotide)
<223> Synthetic construct
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tatatgatgc agcacctagc tctttacagg acattttttt cttggtgggt cacagatttt
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cettetgttg gtgatggeet aggeeactat agggeeatet geaagteett geagtatttg
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gttgtcatga agcaatggct gtgtgttgtg ctgctggtgg tgtcctgggc tggaggattt
                                                                       420
                                                                       480
ttgcacatag taattcaact tggacttatt tatgggctcc catcttatga ccccaatgtc
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attggtcatt ttatttgtga catggacccc ttaatgaagc ttgtctgtga ctacacactc
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aacagatttg cctattttgc aggtcatgat taaatactag gttttatgta tttcacttat
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cctagaggac ttggttctat aaatcttgct atacatagtt attatccctg tggcatctct
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<223> Synthetic construct
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caatgtcatt gatcattttt tctgtgatat gcacccttta ttgaaactgg tctgtactga
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gttccctgta tttttatgta tgctagacct gctaggacct tccccattga caaatcagtg
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taagtg
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<211> 930
<212> DNA
<213> Unknown (H38g858 nucleotide)
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<223> Synthetic construct
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gtagacttac tctgtgataa aaagactatt tctttcccag cttgcatggg ccagttattt
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atagaccage ctggatggeg gagetgaggt egtgettett gtggtgaagg eetgtgatea
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<210> 1009
<211> 915
<212> DNA
<213> Unknown (H38g859 nucleotide)
<220>
<223> Synthetic construct
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gcattgctgg tagcagtctc atattgtggt ggctttatta actcttcaat catcaccaag
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cccagatcta gctattcttt tgatatggac aaaatagttt ctacatttta cactgtggta
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<210> 1010
<211> 948
<212> DNA
<213> Unknown (H38g860 nucleotide)
<220>
<223> Synthetic construct
<400> 1010
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gatcgctttg tggccatctg taaccctctc cattattcag tcataatgaa caggtcccta
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<223> Synthetic construct
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gaacaageet cacetatttg tgeeccaget ceatettete ttatgagagg ggeaaggtag
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<211> 953
<212> DNA
<213> Unknown (H38g863 nucleotide)
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300
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geteceacat geacatecet gtgaccatet tgagaatece tteageaget ggaagacaca
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900
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<223> Synthetic construct
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                                                                       720
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<212> DNA
<213> Unknown (H38g867 nucleotide)
<223> Synthetic construct
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ccccaagatg attgtggaca tccaatctca cagcagagtc atctcctatg caggctgcct
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gactcagatg tetetettg etgtttttgg aggeatggaa gaaagacatg eteetgagtg
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geetteteea eetgtgggte teeeetgtea gttgtttget tattttatgg aaaagtegtt
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atgtacacgg tgatcaccc catgctgaac cccttcatct acagactgag aaacagggac
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atcaaaaggg tcctgtggtg gttgcatggc agaacagttt aatctcatta ttttattatc
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<211> 949
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<213> Unknown (H38g868 nucleotide)
<220>
<223> Synthetic construct
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gaacccaagg ctatgatcaa cttctggtct gaaaacaagt ctatctcctt tgcaggctgt
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<223> Synthetic construct
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cccatgtact tcttcctggg gaacttgtcc ctgccagatg tggggtgtgt cagtgtcact
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gtccctgcca tgctgagcca tttcatatcc aacgacagaa gcattcccta taaggcctgc
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atggcctatg accgctatct ggccatctgc cagtccctca cctacagcag ccgcatgagc
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tggggaatcc agcaagccct ggtgggcatg tcatgtgtct tttccttcac caatgcactq
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gggtgcatca gtcactgttc ctccgatgct ggcgtgtctc caggcccacc agtgcagagt
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<211> 688
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<213> Unknown (H38g874 nucleotide)
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aaaaccgtag tgggggcct catcttgatc actctagttt tccttaattc tcagcttcac
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cctcccatgt actacgtcat cagaaattta tcatttatgg atcactgcaa ttgctctatt
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gtgagttatt catcagtcat acttctctca tgcactagca tctatgatat tgataggaca
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attttctttt ttacttgatg caatattgta gtcactagat taacagttgt ttcctactcc
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ttttctctcc agcatcctcc acatcagctt tacaaagggc aagctctggg tttttcccgt
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<210> 1025
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<212> DNA
<213> Unknown (H38g875 nucleotide)
<223> Synthetic construct
<400> 1025
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eggtgetgag gaacetgete ageateetgg etgteegete tgaeteece etceaeacee
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ccatatactt cttcctctc aacctgtgct gggctgacat cggtttcacc tcggccacag
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tgtacctgac ttcagctgtg tcaccaccc ccaggaatgg tgtggtggca tcagtgatgt
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acgctgtggt caccccatg ttgaaccttt tcatctacag cctgagaaac agggacatac
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<211> 945
<212> DNA
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<220>
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cccatgtact tcttcctggg gaacctatca gtgctggatg ttgggtgcat cagcgtcact
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gttccatcaa tgttgagtcg tctcctgtcc cgcaagcgtg cagttccctg tggggcctgc
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cttacccagc tettettett ccatetgtte gttggagtgg actgetteet getgaccgee
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atggcctatg accaattect ggccatetge eggcccetea cetacaqeae ecqeatqaqt
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cagacagtcc agaggatgtt ggtggctgcg tcctgggctt gtgctttcac caacgcactg
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 ctgctttttg ctgtgggttt tataatggca ggtaccccca tggctctcat tgtcatctcc
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aacactgtca tcaatcccat gctgaaccca atcatctaca gcttcagaaa ccctgatgtg
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<212> DNA
<213> Unknown (H38g878 nucleotide)
<223> Synthetic construct
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gacatcactt ttctgggttg tgctgcacag atgtggttct ttggtctctt tgaggcagct
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gagtgttttc tcctggctgc catggcatat gaccggtatg tggccatctg caagcccttg
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Epaaatatta tcaatcactt tttctgtgat atttttccac tgctttccct agcatgtgca
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gacacctggg tgaataaatt tgtgctgttt gtcttggctg gagctatagg agtactcagt
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atccaagaga aaaaccattt tcttcattgg ttgtgtaagt gttttataat tctacttttt
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cattgtcctg ataatcagag attatcatat gcttacagtg atggctaatg actgctacat
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ggccatttgc aagcccttgt tatatggtag taaaatgtcc agatttgtct gcctctctct
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ggcttctgtt tcttaaatat atggctttgc aaactatctg gcacagacca tccggatgct
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tcttctgtcc ttctgaggat ccaatgagat caaccacttt gactgtgcgg accccctct
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gttagtcctc ccttgcgcag gtacctgtgt caaataaatc atcatgttga tggagccaca
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<210> 1030
<211> 859
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<213> Unknown (H38g880 nucleotide)
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<400> 1030
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accttggcca cggttcccaa gatgattgtg gacatggggt cgcatagcag agtcatctct
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atctctaatt ttgtctgtga gccatctcaa cttctcaagc ttgcctctta tgacaqcgtc
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aagtacaaag cetteteage etgtggetgt cacetggeag ttgtttgett attttatgga
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720
ggcgtcagtg atgtacgctg tggtcacccc catgctgaac cctttcatct acagcctgag
                                                                     780
aaacagggac attcaaagtg ccctgtggag ggtgtgcaac aaaacagtcg aatctcatga
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actggaaact tgggaatgat tgtcctcatc cgaattgatt cccgccttca cacacccatg
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cagcagtggt tetttgggtt etttgtggca geagaetgtt teetettgga gteeatggee
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gcagtgattc ctatgttgaa cccacttatc tacagcttga gaaacaagga agtcaaagat
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gccatccaca ggactgtcac tcagaggaag ttttgcaagg cctaaattct tatccagaag
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<213> Unknown (H38g882 nucleotide)
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ggaaatatta gcataatcct cttaatccaa agcagcccac agcttcacac gctaatgtac
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acccctcat ctacaqtctc aggaataagg aggtgaaaga ggccatgaga aaattgatgg
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aactacatga gactgggttc agaggaggct tcagacaagg ataaaggggt tggagttttc
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aacactgtta tcaaccctat gctgaaccct cttatctaca gcctcagaaa ccctgatgtt
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<212> DNA
<213> Unknown (H38g885 nucleotide)
<220>
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gctaacatca tcattgtgac tatcatctgc attgaccatc atctccacac tcccatgtat
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<212> DNA
<213> Unknown (H38g887 nucleotide)
<220>
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<213> Unknown (H38g888 nucleotide)
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gacaattatg tggccatctg taacccattg ttgtactcag tggccatgta atagagactg
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ggtataggct atctataagc ctttgttgta tacactcatt atgtcccaac aggtctgtgt
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cctgtcctct ccctggcata tgcagatacc catattaata aatgtttact ttttatcttg
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cccatgttga atccccttat ctacagcctg agaaacaagg aggtaaaaga ttcattcagc
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<212> DNA
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<213> Unknown (H38g893 nucleotide)
<223> Synthetic construct
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gategagetg tggccateag ccaccactt cactacacaa caattatgag tccacggtct
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240
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cacatcagca ccactgaggg caggtccaaa gtcttcagca cctgcagctt ccaccttgca
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qtaqacttac tctgtgataa aaagactatt tctttcccag cttgcatggg ccagttattt
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tcaaacatcc ttttgataaa ttcctgacag tgttttatac agttatcaca cccatgttga
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atcctttaat atacacattg agaaattcag agatgagaaa ttctgtagaa acactcttgt
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<210> 1049
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423

<211> 939

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cagateatte aggeeateet gagaateeae acagetgatg ggeggegeeg ggetttttea
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ctgaggcctg aaaccaacag cccctggat ggggcagctg ccctagtccc cacggccatc
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<213> Unknown (H38q900 nucleotide)
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180
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<223> Synthetic construct
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gcttgctatt ctacagttgt cactccaaaa atgttggtca atttcctggc aaaaaataaa
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                                                                      720
gctaagggaa ggcaaaaggc cttctctaca tgtggctctc acctaactgg agtgacaatt
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gttcccaaga tgattgtgga catgcagtgg tatagcaaag tcatctctca tgcgggctgc
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780
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tettetggga acetteteaa etececeate ttgcatgttg tgacacette aceaggaaca
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teageatgta ttteectget geegtatttg gttttettte catetegggg accetttet
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aaccactaat ctatgccctg aggaatgcag aaatgaaaag tgccatgagg aaactttgga
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<210> 1056
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<211> 925

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 <213> Unknown (H38g907 nucleotide)
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<210> 1058
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<212> DNA
<213> Unknown (H38g909 nucleotide)
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<213> Unknown (H38g910 nucleotide)
<220>
<223> Synthetic construct
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aacagacgcc caccegctgc tgttcctgct ctgccttgga tctatctgct caacgccctg
                                                                       120
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agcaacctga gcatggtggc gctggtgaga tccgacgggg ccctccgctc ccccatgtat
tacttettgg gteactgage etegtggaeg tetgetttae cacegteaeg gteeceagge
                                                                       240
tgctggccgg cctgctccac ccgggccagg ccatatcctt ccaggcgtgt ctgccgagat
                                                                       300
gtacttette gtgactetgg cateacegag agetacetea tggcggccat gtcctagega
                                                                       360
                                                                       420
geocgaegge gegtgeegge acetetgtae ggegegetgg tgaegeeate ggegtgegee
tgctggtgcg tgcgtcgtgg gccgtgacgc acctgcactc gctgctgcac acgctgctcc
                                                                       480
teteegeget etectacece taccecacee eegtgegeee ettettttge gacatgaegg
                                                                       540
tgatgctgag cttggcgacc tcggacacgt ccgccgcgga gacggccatc ttctccgagg
                                                                       600
gcctggccgt ggtgttggcc ccgctgctcc tcgtgttcct tttcctacgc gcgcatcctg
                                                                       660
gtcgcggtgc tcggcttgcg cggccgcgcc gcgccttctc cacctgcggg gcccacctag
                                                                       720
tggcggtggc ggtggcgctt ttctttggct ctgtcctctc cgtgtatttc ccgccgtcgt
                                                                       780
ctgcctactc agcccgctac gaccgcctgg ccagcqtggt ctacqctqtc atcacqccga
                                                                       840
ccttgaaccc tttcatcaac agccttcgca acaaagaggt caagggcgcc ctgaaaaggg
                                                                       900
ggctcagcat ggagggctgc accccaagag gcgtgagggc aaatctggct
                                                                       950
```

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<210> 1061
 <211> 933
 <212> DNA
 <213> Unknown (H38g911 nucleotide)
 <223> Synthetic construct
 <400> 1061
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 ccccagctcc agaggctgct cttcgtggtg ttcctgggca tgtacacagc cactctgctg
                                                                        120
 gggaacctgg tcatgttcct cctgatccat gtgagtgcca ccctgcacac acccatgtac
                                                                        180
 tecetectga agageetete ettettggat ttetgetaet eetecaeggt tgtgeeceag
                                                                        240
 accetggtga acttettgge caagaggaaa gtgatetett attttggetg catgaeteag
                                                                        300
 atgttcttct atgcgggttt tgccaccagt gagtgctatc tcatcgctgc catggcctat
                                                                        360
 gaccgctatg ccgctatttg taaccccctg ctctactcaa ccatcatgtc tcctgaggtc
                                                                        420
 tgtgcctcgc tgattgtggg ctcctacagt gcaggattcc tcaattctct tatccacact
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ggctgtatct ttagtctgaa attctgcggt gctcatgtcg tcactcactt cttctgtgat
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gggccaccca tcctgtcctt gtcttgtgta gacacctcac tgtgtgagat cctgctcttc
                                                                        600
attittgctg gtttcaacct tttgagctgc accetcacca tettgatete etaettetta
                                                                        660
attctcaaca ccatcctgaa aatgagctcg gcccagggca ggtttaaggc attttccacc
                                                                       720
tgtgcatccc acctcactgc catctgcctc ttctttggca caacactttt tatgtacctg
                                                                       780
cgccccaggt ccagctactc cttgacccag gaccgcacag ttgctgtcat ctacacagtg
                                                                       840
gtgatcccag tgctgaaccc cctcatgtac tctttgagaa acaaggatgt gaagaaagct
                                                                       900
ttaataaagg tttggggtag gaaaacaatg gaa
                                                                       933
<210> 1062
<211> 948
<212> DNA
<213> Unknown (H38g912 nucleotide)
<220>
<223> Synthetic construct
<400> 1062
atgcaaaacc aaagctttgt aactgagttt gtcctcctgg gactttcaca gaatccaaat
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gttcaggaaa tagtatttgt tgtatttttg tttgtctaca ttgcaactgt tgggggcaac
                                                                       120
atgctaattg tagtaaccat tctcagcagc cctgctcttc tggtgtctcc tatgtacttc
                                                                       180
ttcttgggct tcctgtcctt cctggatgcg tgcttctcat ctgtcatcac cccaaagatg
                                                                       240
attgtagact ccctctatgt gacaaaaacc atctcttttg aaggctgcat gatgcagctc
                                                                       300
tttgctgaac acttctttgc tggggtggag gtgattgtcc tcacagccat ggcctatgat
                                                                       360
cgttatgtgg ccatttgcaa gcccttgcat tactcttcta tcatgaacag gaggctctgt
                                                                       420
ggcattctga tgggggtagc ctggacaggg ggcctcttgc attccatgat acaaattctt
                                                                       480
tttactttcc agettccctt ttgtggcccc aatgtcatca atcactttat gtgtgacttg
                                                                       540
tacccgttac tggagcttgc ctgcactgat actcacatct ttggcctcat ggtggtcatc
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aacagtgggt ttatctgcat cataaacttc tccttgttgc ttgtctccta tgctgtcatc
                                                                       660
ttgctctctc tgagaacaca cagttctgaa gggcgctgga aagctctctc cacctgtgga
                                                                       720
tctcacattg ctgttgtgat tttgttcttt gtcccatgca tatttgtata tacacgacct
                                                                       780
ccatctgctt tttcccttga caaaatggcg gcaatatttt atatcatctt aaatcccttg
                                                                       840
ctcaatcctt tgatttacac tttcaggaat aaggaagtaa aacaggccat qaggagaata
                                                                       900
tggaacagac tgatggtggt ttctgatgag aaagaaaata ttaaactt
                                                                       948
<210> 1063
<211> 930
<212> DNA
<213> Unknown (H38g913 nucleotide)
<220>
<223> Synthetic construct
<400> 1063
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atgcaactga ataataatgt gactgagttc attctgcttg gattgacaca ggatcctttt
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 tggaagaaaa tagtgtttgt tatttttttg cgtctctact tgggaacact gttgggtaat
                                                                        120
 ttgctaatca ttattagtgt caaggccagc caggcactta agaacccaat gttcttcttc
                                                                        180
 cttttctact tatccttatc tgatacttgc ctctctactt ccatagcccc tagaatgatt
                                                                        240
 gtggatgccc ttttgaagaa gacaactatc tccttcagcg agtgcatgat ccaagtcttt
                                                                        300
 teateceatg tetttggetg cetggagate tteatectea teeteaegge tgttgaeege
                                                                       360
 tatgtggaca tctgtaagcc cctgcactac atgaccatca taagccagtg ggtctgtggt
                                                                        420
 gttttgatgg ctgtggcctg ggtgggatcc tgtgtgcatt ctttagttca gatttttctt
                                                                        480
 gccctgagtt tgccattctg tggccccaat gtgatcaatc actgtttctg tgacttgcag
                                                                        540
 cccttgttga aacaagcctg ttcagaaacc tatgtggtta acctactcct ggtttccaat
                                                                        600
 agtggggcca tttgtgcagt gagttatgtc atgctaatat tctcctatgt catcttcttg
                                                                        660
 cattetetga gaaaccacag tgctgaagtg ataaagaaag caetttecae atgtgtetee
                                                                       720
 cacatcattg tggtcatctt gttctttgga ccttgcatat ttatgtacac atgccctgca
                                                                       780
 acceptattcc ccateggataa gatgatagct gtattttata cagttggaac atcttttctc
                                                                       840
 aaccctgtga tttacacgct gaagaataca gaagtgaaaa gtgccatgag gaagctttgg
                                                                       900
 agcaagaaat tgatcacaga tgacaaaaga
                                                                       930
<210> 1064
<211> 964
<212> DNA
<213> Unknown (H38g914 nucleotide)
<223> Synthetic construct
<400> 1064
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                                                                        60
ccagagetee agetttttet gtteetgete tgeeteatea tgtacatgat aateeteetg
                                                                       120
ggaaatagct tecteattat cateaceate ttggattete geeteeatae eeccatgtat
                                                                       180
ttetttettg gaaacetete attettggge atetgttaca cateateate catteeteea
                                                                       240
atgettatta tatttgtate tgagagaaaa teeateteet teattggetg tgetetgeag
                                                                       300
atggttgtgt cccttggctt gggctccatt gagtgtatcc tcctggctgt gatggcctat
                                                                       360
gaccgctatg tggccatctg caacccactg aggtactcca tcatcatgaa cagagtgctg
                                                                       420
tatgtgcaaa tggctgcatg gtcctggatc ataggctgtc tgacctccct attgcgaaca
                                                                       480
gttctgacaa tgatgttgcc tttctgtggg aataatatca ttgatcatct tacctgtgag
                                                                       540
atcctggctc ttcttaaagt catatgctca gatatctcca taaatgtgtt tataatgaca
                                                                       600
gtgtcaagta ttgttttatt ggtgattcct cttaattttt atctcctatg tgtttattct
                                                                       660
ctcttccatc ttgagaatta attctgctga gggaagaaag aaagcctttt ttacctgttc
                                                                       720
agcgcacttg actgtggtca tcttattcta tggttcagtt cttttcatgc acatgaagcc
                                                                       780
caaatcaaag ttcacaacag catctgatga aatcattgga ttgtcttatg aagtgatcac
                                                                       840
cccaatgaac cccatcatct acagcctgag gaataaggag ataaaagaag ctgtgaagaa
                                                                       900
aatcctcagc agacacgtgc atctatggaa aatatgaaag gccttgaggc atgtgacgtt
                                                                       960
ctca
                                                                       964
<210> 1065
<211> 620
<212> DNA
<213> Unknown (H38g915 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(620)
<223> n = A,T,C or G
<400> 1065
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ctttttcctg aagaacctct ctgttttgga tctgtgctac atctcagtca ctgtgcctaa
                                                                       120
atccatccgt aactccctga ctcgcagaag ctccatctct tatcttggct gtgtggctca
                                                                      180
agcctatttt ttctctgcct ttgcatctgc tgagctggcc ttccttactg tcatgtctta
                                                                      240
```

```
tgaccgctat gttgccattt gccaccccct ccaatacaga gccgtgatga catcaggagg
                                                                        300
 gtgctatcag atggcagtca ccacctggct aagctgcttt tcctacgcag ccgtccacac
                                                                        360
 tggcaacatg tttcgggagc acgtttgcag atccaatgtg atccaccagt tcttccqtqa
                                                                        420
 cateceteag gtgttggece tggttteetg ngaggtttte tttgtagage tttgaceeng
                                                                        480
 ccctgagcct caatgcttgg ntctgggatg ctttattccc atgatgatct ccnattttcc
                                                                        540
 anatottotn aanggggoto nagaatooot tnaggaccag antonagota aaagootttn
                                                                        600
 cccnnctgct tcccccacg
                                                                        620
 <210> 1066
 <211> 611
 <212> DNA
 <213> Unknown (H38g916 nucleotide)
 <220>
 <223> Synthetic construct
 <221> misc_feature
 <222> (1)...(611)
 <223> n = A,T,C or G
<400> 1066
gatgcatgct cgagcggccg ccagtgtgat ggatatctgc agaattcgcc cttccaatgt
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atttatttct ctctgacctc tccttcttgg acctctgctt taccacaagt tgtgtccccc
                                                                        120
agatgctggt caacctctgg ggcccaaaga agaccatcag cttcctggga tgctctgtcc
                                                                       180
agetetteat etteetgtee etggggacca etgagtgeat eeteetgaca gtgatggeet
                                                                       240
ttgaccgata cgtggctgtc tgccagcccc tccactatgc caccatcatc caccccgcc
                                                                       300
tgtgctggca gctggcatct gtggcctggg ttatgagtct ggttcaatcg atagtccaga
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catcatccac cctccacttg cccttctgtc cccaccagca gatagatgac tttttatgtg
                                                                       420
aggtcccatc tctgattcga ctctcctgng gagatacctc ctacaatgaa atccagttgn
                                                                       480
ctgtgtccag tgtcatcttt ggtggntgtg cctctcagcc tcatccttgc ctcttatgga
                                                                       540
gccactgccc aggcngggc tgaggattaa ctttgccnna gccatggaag aaaggtcttt
                                                                       600
nggacctngn n
                                                                       611
<210> 1067
<211> 619
<212> DNA
<213> Unknown (H38g917 nucleotide)
<223> Synthetic construct
<221> misc_feature
<222> (1)...(619)
<223> n = A,T,C or G
<400> 1067
gatgcatgct cgagcggccg ccagtgtgat ggatatctgc agaattcgcc ctttctttat
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ttcgaagagt atacactagt ggattgaaga gaaacaaata cataggaagg gcgaattcca
                                                                       120
gcacactggc ggccgttact agtggatccg agctcggtac caagcttgat gcatagcttg
                                                                       180
agtattctaa cgcgtcacct aaatagcttg gcgtaatcat ggtcatagct gtttcctgtg
                                                                       240
tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat aaagtgtaaa
                                                                       300
gcctggggtg cctaatgagt gagctaactc acattaattg cgttgcgctc actgtccgct
                                                                       360
ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggccaacg cgcgngnaga
                                                                       420
ggccggnttg cgtattgggc gctcttccgc ttctcgctca ctgactcgct gcgctcggga
                                                                       480
cgtccggctg cggcgagcgg tatcagctta ctcaanggcc gtantacggt tattcncagg
                                                                       540
aatnnggggt taacgccngg naaagaacat tgtgngccan angncaagcn taatgcccag
                                                                       600
gaaccgntan aacgntccc
                                                                       619
<210> 1068
<211> 621
<212> DNA
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<213> Unknown (H38g918 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(621)
<223> n = A,T,C or G
<400> 1068
                                                                        60
gnnnnttntt cantccattg ggccctctag atgcatgctc gagcggccgc cagtgtgatg
gatatctgca gaattcgccc ttattccgga gggtatacat gaagggattg gtaactagac
                                                                        120
gtaaactcga agccaagaac agaatttctc ttagaaaaga gaattgaaac taaagagaaa
                                                                        180
gaactagcaa agaaggaaat attgaatata caagagagag gagacagatg atggaacaag
                                                                        240
                                                                        300
actctgaaag aggtggaagg gattgaatac aatcaaaagt atggtgactg ctagttccaa
gatggtggcg taggggcaag ctggctttgc ttacccccct ggcagaaaac caaaaacaaa
                                                                        360
tagcaccaag attatcacta gcaatatccc agaactcaca tataaggatg agacagttcc
                                                                        420
cagggcccag agaagatcag aagcacaagt gggagaagtc agctttggat gctactttgt
                                                                        480
tctaagggag acaagttggg aggatgattg cagatgtata ttcaatgtta taaaacagcc
                                                                        540
cataaaacaa agattggaaa atgttgaatt ttgcaaccag gagcaaatac tgggaaaggc
                                                                        600
                                                                        621
gaattccagc cacttgcngc c
<210> 1069
<211> 615
<212> DNA
<213> Unknown (H38g919 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(615)
\langle 223 \rangle n = A,T,C or G
<400> 1069
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gnnnnttnan tcantgccct ngggccctct agatgcatgc tcgagcggcc gccagtgtga
                                                                        120
tggatatctg cagaattcgc ccttgttgcg caaggtgtaa atgaaagggt ttgcgcagga
gtaaatgaag ggattacgca ggagtaaatg aagggattac gcaggagtaa atgaagggat
                                                                        180
tacgcaggag taaatgaagg gattacgcag gagtaaatga agggattacg caggagtaaa
                                                                        240
                                                                        300
tgaagggatt acgcaggagt aaatgaaggg attacgcagg agtaaatgaa gggattacgc
aggagtaaat gaagggatta cgcaggagta aatgaaggga ttacgcagga gtaaatgaag
                                                                        360
ggattacqca ggaqcaaata cataggaagg gcgaattcca gcacactggc ggccgttact
                                                                        420
                                                                        480
agtggatccg agctcggtac caagcttgat gcatagcttg agtattctaa cgcgtcacct
                                                                        540
aaatagcttg gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt atccgctcac
                                                                        600
aattccacac aacatacgag cccggaagca taaagtgtaa agnctggggt gcctaatgag
                                                                        615
tgacttactc catta
<210> 1070
<211> 614
<212> DNA
<213> Unknown (H38g920 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(614)
<223> n = A,T,C or G
<400> 1070
ggnnttnant cattgccccg ctngatgcat gctcgagcgg ccgccagtgt gatggatatc
                                                                        60
```

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```
tgcagaattc gcccttccga tgtattttct tctacgttaa ggtattttaa attgttacta
                                                                      120
 atgcataagg gcaacacatt ctgtaatgct gacaagatga aagagccaaa agtaattaat
                                                                      180
 gatgctgtta cctcacaaat atgtatgtgt ggatgtatat atatctattc aatatatgta
                                                                      240
 actatacata tgtctgtttc taattgaaaa caccaggtaa ttatcatctg tagaaaccct
                                                                      300
 agtgtctcag ataagttggc tagttttttg tttcacataa aggaacaaac atttatagat
                                                                      360
 ttatatgtat attaaaaatg gtaaaaattg gctgggtgca gtggttcatg cctataatac
                                                                      420
 cagcactttg ggaagccgag gtgggcggat tacttgaggt aaggagccca gcctgaccaa
                                                                      480
caaggtgaaa ccccatcct actaaaaata caagaattag cccggggatg gtggtggcca
                                                                      540
cctgtaatcc cagctacttg ggagactgaa gccaggaaaa tcacttgacc caggaagcng
                                                                      600
aggttgcagg ngag
                                                                      614
<210> 1071
<211> 857
<212> DNA
<213> Unknown (H38g921 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(857)
<223> n = A,T,C or G
<400> 1071
atggnnnnnn nntttnnnaa anttttnccc antttgggcc gncccccct tctttaaggn
                                                                      60
aatgggccca ttgggccctt cccggaaggc ccgggggcnc ccggccccaa aggtttgggt
                                                                      120
tgggaaatgg ggggaattta aatteetttg ggccaaggna aaaattttee ngccccctt
                                                                      180
tttttcccct tttggttttt anccggggga angggggggt tgattaatta atcgggaagn
                                                                      240
300
ttccanggga ccgttgggac caggcttttn gaatcaagaa tcccaaaggg cattcttttg
                                                                      360
gattaaggaa nggtgccggg accggtgaaa gggaaaaaac tggtggaccc cataccaaaa
                                                                      420
tgagaaccac ggtgagatgc cgaggagcac gtggagaaag gctttgcttc cggccactgg
                                                                      480
cagaggggat cctgaggatg gtgcttgatg atgtacacat agggagacaa gggtgatgag
                                                                      540
gcatgaactc aggataacca caacagcnat cacaaaggcc acaaagctct actgcctgtg
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tgttgggtgc aggccagggc aatccagggg tgcaatgtca caagaaagaa agtggttgat
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ggcacgggng ggccacagaa ggacaggcca cttgatgaag ggcttgtggg cactgcaatg
                                                                     720
gccacgaaac caccagaccc aggaacccan ggccaagctt gcgcctgaag agcaaggcta
                                                                     780
ctcatgaatg gcttccgtag tngtaaagga tagcaagatg gcaaaggcaa gccggtcatn
                                                                     840
aagccatggc ttgccng
                                                                      857
<210> 1072
<211> 593
<212> DNA
<213> Unknown (H38g922 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(593)
<223> n = A,T,C or G
<400> 1072
aacgcagagt accgccact acgtaatctg tacatgaaag ggtttaaaag agactgggaa
                                                                      60
gagaggaatt ggcaagatca agcagaggca actccttcta gtccttctag taccgcaagg
                                                                     120
ggcagataaa tggaatgggt aacacctaga ggaaagtata cttgccaaaa gcaaatncat
                                                                     180
aggggggagt acattatcgg gttgaaaaaa gtattccatg cagataaaaa ccaaaagcaa
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atacateggg ggcgtacttc tgtcgtcttt gagcgtactg atggtaccca gcttttgntc
                                                                     300
ctttagtgag ggttaattgc gcgcttggcg taatcatggt catagctggt ttctgtgtga
                                                                     360
aattgttatc ccgctcacaa ttcacacaac atacgagccc gggagcataa agtgtaaagc
                                                                     420
ctggggtgcc taatgagtgg agcttactta cattaaattg cgttgcgctc actggccgct
                                                                     480
```

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```
tttccaagtc gggaaacctg tcgtgncagc ttcantaatg aatcggccaa cgccgcgggg
                                                                       540
agaggcgggt tgcgtattgg gcgctcttcc gcttcttngt tnactgactt cgg
                                                                       593
<210> 1073
<211> 624
<212> DNA
<213> Unknown (H38g923 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(624)
<223> n = A,T,C or G
<400> 1073
gnnntttaac nccggngctn cnagcagtgg aacaacgcag agtacgcccc cgatgtactt
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tettttcag tetcaagtet teetettete caaagatttt gtetttteta etaeetgage
                                                                       120
taccaaatcc cttgtcatca atttcaataa ctgtattctc ttcatcattt caacttcaaa
                                                                       180
cgtgtcatct cagaacaagc ttcatgttac ttccaatttt atccttcttg tttgctgatt
                                                                       240
                                                                       300
ccaagaattc cagtcccatc taggcccgca atgcattgtt cctgccaccc ttttcatatc
                                                                       360
ctcaattccc ttgtatcatc actttccttt tatatagcac agattccatg attcataaca
ataattatgt tttttttgc atgtgctctt aatttccttt cttgctccta ttatcttcta
                                                                       420
tcatactttt ctggaaacac taattctggt gaaatatact ctttgtggac tttgcactta
                                                                       480
tgctcagtca gctgaagatg atggctagac aaatactcac aatcatgctg actggcccaa
                                                                       540
tttatagtca tgaccaccga ttacaaaccc cttcatttat tctccgcaac aggggcgtct
                                                                       600
                                                                       624
tctgcgcttg agcgtccggt gggg
<210> 1074
<211> 637
<212> DNA
<213> Unknown (H38g924 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(637)
<223> n = A,T,C or G
<400> 1074
                                                                        60
ttatnnccat tggagctcca aagcagtggt aacaaccgca gagtacgccc cccatgtatt
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ttcttttct tggggnagct gnatgcttcc tnctggctac catggnatat gaccggctat
                                                                       180
gnggncatct gcagtccctt gnnctcccag tcattatgaa ccaaaggaca cgggccaaac
                                                                       240
tggctggtgn ttcctgggtc ccaagetttc ctgnagetac tgngcaagac cacaatggct
cttnagnttt ccattctgng gcaccaacaa ggtgaaccac ttntttctgn gacagccggc
                                                                       300
                                                                       360
tgtgctgaaa gctggtctgn tgcaagacac agcactgttt gagatctacg ccatcgtcgg
                                                                       420
aaccattctg gtggtcaatg aacccctgct tgctgatctt gngttcctat actcgnattg
                                                                       480
gtgctgctat ccctcaagaa cccatcaagc taaangggaa gcaataaagn cctttctcta
cgtgctcctt aacacctccc ttggtggcct ctcttttcta atataatcnt ctaagcctca
                                                                       540
                                                                       600
acctacttct tgggcctnaa ntcaaataaa ttcttctgga gaggcaagaa ggtggtattc
                                                                       637
atttatncta cactggtngn gactccatgn tggaact
<210> 1075
<211> 621
<212> DNA
<213> Unknown (H38g925 nucleotide)
<220>
<223> Synthetic construct
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<221> misc_feature
 <222> (1)...(621)
 <223> n = A,T,C or G
 <400> 1075
 gtnatncent ttaatncent tggageteea ageagtggta acaacgeaga gtacgeecgt
                                                                         60
 tecteagaca gtatatgaat gggttaaaaa tgggccagag cagatgcagg aagatcaaat
                                                                        120
 aggaggetae tgeagtagag teaaatetag ggetgatggt ttettgggat geatagtaat
                                                                        180
 aggtagatag agaaagtett taggaggtag aatggacagg acttcacaat gcattaaatg
                                                                        240
 tagggagaaa aaaaatgatt cctgggtttc tagcttgagc tagtagggat agtggtagaa
                                                                        300
 tttactgata tggaaaactg gaggaaaaag agtttggaag agaaagatgg caagttaaat
                                                                        360
 acctgtggga aatataatca cagacactaa ataggcagct gtgtgggtgg caaaggagag
                                                                        420
 ccatgggcta ggaacataca gtgggattcc ctggcatgtc attggttact gaagtcagag
                                                                        480
 tgtatgagac agcctaagga gagaatncac acaggagaag aaagaactaa acattcagtg
                                                                        540
 gctggccaga ggatgagaaa cccaagagat tggactgttt aggagcaaca gtgttgngaa
                                                                        600
 aagggagaaa nggttgaaat t
                                                                        621
 <210> 1076
 <211> 631
 <212> DNA
 <213> Unknown (H38g926 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G
<400> 1076
ggntttannc nctggagctc caaagcagng gtaacaacgc agagtacgcc cattgcgtag
                                                                         60
cgtgtacata aaggggttgg agctgaagga ggagataaag aagaagacag ccagaacctt
                                                                        120
gtcctctgtc ggagatcgca gggatcttgg gccgtagata ggtataagca aagggtgcat
                                                                        180
agtagaaagt cactacagtg aggtgggtgc tgcaggtcga ataggccttc ttcctcctt
                                                                        240
ctgcagagtg catgtggtag acagcaagga gaatccggcc ataggaacat gcaatacaaa
                                                                        300
tgaagggaaa cacaagaaaa atggtggtgc tcaaaaaacac cgtgcactca tagacccagg
                                                                        360
tatccgtgca ggctagggtc aacatagctg gaacatcaca gaaaaaatga ttgatggctc
                                                                        420
tggacttgca atatgggata cggagtgcat ataccgtgtg agcacaagag ttgatggagc
                                                                        480
ctatcatcca agatcctgtt atcatcagtg cacacactct ttttctcata cggatgagat
                                                                       540
agtggagagg aaagcaaata gccacataac gatcataggc cattgatgtc aggagcagcg
                                                                       600
cttctgcacc tgctaaagtc aggaagaaga t
                                                                       631
<210> 1077
<211> 620
<212> DNA
<213> Unknown (H38g927 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(620)
\langle 223 \rangle n = A,T,C or G
<400> 1077
tgttantccn ntttnctncc attggagete ccaageagtg gtaacaaege agagtaegee
                                                                        60
ctccttgttt ctgagagtgt agatgaaggg gttataggag ataaagatca gggcaatatq
                                                                       120
taggacaagg acacagacac tgacaacaaa gttgattatc tcattgacag tggtgtctgt
                                                                       180
gcaggccagc ttcagcaggg gtctcacatc acagaagaag tgggagatga caaagtcatc
                                                                       240
acaaaagggc aggccaaaca tagatgttac ttggacaata gccatgccca ggccaatcct
                                                                       300
cagtgaccca gatcccagtc agacacaagc cctcttacct atgaataccg taaggggttg
                                                                       360
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420
caqaaqacca catagcaatc atatcccatg gctatgagaa gaaagcagtt gttgatgcca
                                                                       480
aaagtcacat agaagagctg agtgacacag ccttgcatga caataagcta gtgaggattc
aagaggcgag aaagcatatg gggagtaatg gccaccatgt agcaggtctc agagatagac
                                                                       540
agcaatgctt aggaaaaagt acatgggccg tacttctgtc gtcttgagcg tactgatggt
                                                                       600
                                                                       620
acccagettt tgttcccttt
<210> 1078
<211> 627
<212> DNA
<213> Unknown (H38g928 nucleotide)
<223> Synthetic construct
<221> misc_feature
<222> (1)...(627)
<223> n = A,T,C or G
<400> 1078
tgtagctcca aagcagtggt aacaacgcag agtacgccct cttggttacg taagggaata
                                                                        60
gatgatgggg ttcagcatgg gggtgactac agtgtacatg acagtggcca cacggtccca
                                                                       120
                                                                       180
ctctgctcgc gtcgggacgt ggcctggaag tagactgcaa tgactgtcct atagaaagag
                                                                       240
gctcaccaca nccaggtggg agccacaggt gggncacaag tcccggagcc tcccagaggc
ttgagggcag ctggagcacg ggnaagcttg ntatggnccc acaaggaggc gaggatgagc
                                                                       300
                                                                       360
agnaagggag tgaccaccac ttgcngcgcc ctnggtgaag atgagcagct tggatgtggt
                                                                       420
ggntgtcaga gcacgagagc ctttaagaga ggcttggtgg gtcacagaag aagtgggngc
                                                                       480
actttgtggg aaagcacaga aaggacaagc gagccatgag caggatatac aggagggagt
tgtccgtggg acaccagcca tgccattcca accagggctg cgcacatngc cggggacatt
                                                                       540
                                                                       600
ctcqtqqqat aaggqaaggg gtgccggatn ggcacgtatc agtcataggc cttggncgcc
                                                                       627
agaagacagc tttnaattta ccccagg
<210> 1079
<211> 549
<212> DNA
<213> Unknown (H38g929 nucleotide)
<223> Synthetic construct
<400> 1079
gcagtggtaa caacgcagag taccgcccc tatgtacttt ttcttgggaa acttgtctgt
                                                                        60
gtttgacatg ggtttctcct cagtgacttg tcccaaaatg ctgctctacc ttatggggct
                                                                       120
gggccgactc atctcctaca aagactgtgt ctgccagctt ttcttcttcc atttcctcgg
                                                                       180
                                                                       240
gagcattgag tgcttcttgt ttacggtgat ggcctatgac cgcttcactg ccatctgtta
                                                                       300
tcctctqcqa tacacaqtca tcatgaaccc aaggatctgt gtggccctgg ctgtgggcac
                                                                       360
atiggetigtta gggtigeatte attecagtat ettgacetee etcacettea cettgecaca:
                                                                       420
ctgtggtccc aatgaagtgg atcacttctt ctgtgacatt ccagcactgt tgcccttggc
ctgtgctgac acatccttag cccagagggt gagcttcacc aacgttggcc tcatatctct
                                                                       480
ggctgctttc tgctaaatct tttatcctac actagaatca caaatatcta tcttaagcat
                                                                       540
                                                                       549
tcgtacaac
<210> 1080
<211> 616
<212> DNA
<213> Unknown (H38g930 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(616)
```

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<223> n = A,T,C or G
<400> 1080
gmnnnnnnt tcatnccatt gggccctcta gatgcatgct cgagcggccg ccagtgtgat
                                                                         60
ggatatctgc agaattcgcc cttgttgctt agagtgtaaa taaaagggtt aacattggct
                                                                        120
tagaggtgaa gagtaaatac ataggaaggg cgaattccag cacactggcg gccgttacta
                                                                       180
gtggatccga gctcggtacc aagcttgatg catagcttga gtattctaac gcgtcaccta
                                                                       240
aatagcttgg cgtaatcatg gtcatagctg tttcctgtgt gaaattgtta tccgctcaca
                                                                       300
attccacaca acatacgage eggaagcata aagtgtaaag eetggggtge etaatgagtg
                                                                       360
agctaactca cattaattgc gttgcgctca ctgcccgctt tccagtcggg aaacctgtcg
                                                                       420
tgccagetgc attaatgaat eggccaaege geggggagag geggtttgeg tattgggege
                                                                       480
tetteegett cetegeteac tgactegetg egeteggteg nteggetgeg gegageggta
                                                                       540
tcaagctcac tcaaaggcgg taatacggtt atccacagaa tcagggggat acgcangaaa
                                                                       600
gaacatgtga gcaaat
                                                                       616
<210> 1081
<211> 615
<212> DNA
<213> Unknown (H38g931 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(615)
<223> n = A,T,C or G
<400> 1081
ngnnnnttna ntcnangcon ngngcoctot agatgcatgc tcgagcggcc gccagtgtga
                                                                        60
tggatatctg cagaattcgc ccttccaatg tatttacttc tcagccagct ctcccttatg
                                                                       120
gacctgatgt acatctccac caccgtcccc aagatggcgt acaacttcct gtccggccag
                                                                       180
aaaggcatct ccttcctggg atgtggtgtg caaagcttct tcttcctgac catggcgtgt
                                                                       240
totgaaggot tactootgac otcoatggoc tacgaccqtt atttggocat otgocactct
                                                                       300
ctctattatc ctatccgcat gagtaaaatg atgtgtgtga agatgattgg aggctcttgg
                                                                       360
acactggggt ccatcaactc cttggcacac acagtctttg cccttcatat tccctactgc
                                                                       420
aggictaggg ctattgacca titctictgc gatgicccag ccatgitgct tcttgctgta
                                                                       480
cagatacttg ggtctatgaa tatatggttt ttgtaaggac aaagcctctt tcttctttn
                                                                       540
cettteattg geateactte ttetgnggge egagteetaa ttgetggeta tataatgeae
                                                                       600
tcaaaggagg ggagg
                                                                       615
<210> 1082
<211> 628
<212> DNA
<213> Unknown (H38g932 nucleotide)
<223> Synthetic construct
<221> misc_feature
<222> (1)...(628)
<223> n = A,T,C or G
<400> 1082
gnnnnnnat ttnatgccnt tnttgattcc cnttnnnnn ncaagcagng gtaacaacgc
                                                                        60
agagtacgcc ccctatgtat ttcttcctaa gatccaaata ttaaaataaa agacagtcat
                                                                       120
cccaccacta actaaagtag tgtttcccac acttctctat taagaagcat gtgagatact
                                                                       180
tgttacaaac ataacatcct ggtcccaccc caaagccact caatcaaata ctccagggaa
                                                                       240
gggatctagg aattcgtagg tttaacgagt gccccaaaat gattattacc tgttggagaa
                                                                       300
tctaggcaac aatgaattaa ggaaagctct ctaccatttg gtactggtac caggtttgag
                                                                       360
gatcacaggg aagagggtaa gcatatcaga ctagcagagc tgccagaact cgggctttca
                                                                       420
aaagagaggt gccaccctct cccatgtcca tgtaagtagc aaacaaccct ctcatgtaca
                                                                       480
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ctctgaggaa caagggggcg tacttctgtc gtcttgagcg tactgatggt acccaqcttt
                                                                        540
 tgtcccttta gtgagggtta attgcgcgct tggcgtaatc atggtcatag ctgtttcctg
                                                                        600
 tgtgaaattg ttatccgctc acaattct
                                                                        628
 <210> 1083
 <211> 613
 <212> DNA
 <213> Unknown (H38g933 nucleotide)
<220>
<223> Synthetic construct
<221> misc_feature
<222> (1)...(613)
<223> n = A,T,C or G
<400> 1083
annncentng gagetecaaa geagtggtaa caacgeagag taegeeeet atgtaettae
                                                                        60
ttttgttaag tccaacctcc atcctccttg gccttttgat tcaattgatc actccttcct
                                                                        120
cctcaaaaca ccttgttcac tcatcctttc tcagtctcct ttgtggattc ttcctcattt
                                                                        180
atttgacctc ttgctggtga accctttcat atacactctc cgtaacaaag agggcgtact
                                                                        240
tetgtegtet tgagegnact gatggnacee agettttgtt eeetttagtg agggntaatt
                                                                        300
gcgcgcttgg cgnaatcatg gncatagctg nttnctgngn gaaantgnta tttcgntnac
                                                                        360
aattncacac aacatacnag ccgggagcat aaagggnnaa gncctggggn gcctaatgag
                                                                        420
ggagcttact cacaataatt ggggtgngcc cactggcccc ttttcaggcg ggaaaacctn
                                                                        480
gcggggccag ctggaataaa tgaatcgggc cacgcgccgg ggaggagggc gggttnngga
                                                                       540
attgggcgct ttttccnttt ctnggttaat ggactnggtn ggcnnngtcc gttcggttgg
                                                                       600
ggggancggn nnt
                                                                       613
<210> 1084
<211> 886
<212> DNA
<213> Unknown (H38g934 nucleotide)
<223> Synthetic construct
<221> misc_feature
<222> (1)...(886)
<223> n = A,T,C or G
<400> 1084
ggtcccntcg ngtatncntt naccctctga tgctgctcga gcggccggca gggtgatgga
                                                                        60
tatctgcaga attcgccctt ctgttacgca ggaatatata aaggggttac tgaggaataa
                                                                       120
ataaatgggt tactgaggaa taaataaatg ggttactgag gaacaaatac atagggttga
                                                                       180
aagaactgta aaatagaaaa aggaccttnt gctgctcctc aggatggcqq nacttagqqq
                                                                       240
ccatgtacat gacgatgnng ctgccnntna agagtcccac tnctcancng cctcagcccg
                                                                       300
nctttttnct cacnnnccnt ntttntctnc cctcttnnnc tctttncttc ctattccccc
                                                                       360
coefficient coffeethtt gentnaceat typecetnat coefficient enntennten
                                                                       420
teteceetet atteettenn tnttegnett cantetetne etetttetee ecenettet
                                                                       480
etentetnet etteetetng teateetngt tenttetett neetanttee etetaneett
                                                                       540
ntcttattnc tcctctatnc cctctcatct cacntctcnt cctctcntcn tacttnnctc
                                                                       600
nnetetteen eteegtente enetttetet tentnaegee acceetennn entnetetet
                                                                       660
ntetenteet caetetetee tetecetnen enteaetntt etceneetet aenteetatn
                                                                       720
ctenenttet nnettnaett tgteaegete tecteeteet etetaegeae nttttatete
                                                                       780
ttatetenen catenecete nnttetneae netattnaet ettttetene ataetntatn
                                                                       840
ctcctntcnn cttanatcnc ctcccttctn tnanccnntc actgcn
                                                                       886
<210> 1085
<211> 125
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<212> PRT

<213> Unknown (H38g1 protein) <223> Synthetic construct <400> 1085 Leu Ala Cys Ala Asp Thr Ser Leu Ala Gln Arg Val Ser Phe Pro Asp 10 Val Gly Leu Ile Ser Leu Val Cys Phe Leu Leu Ile Leu Leu Ser Tyr 25 Thr Arg Ile Thr Ile Ser Ile Leu Ser Ile Arg Thr Thr Glu Gly Arg 40 45 Arg Arg Ala Phe Ser Thr Cys Ser Ala His Leu Ile Ala Ile Leu Cys Ala Tyr Gly Pro Ile Ile Thr Val Tyr Leu Gln Pro Thr Pro Asn Pro 70 Met Leu Gly Thr Val Val Gln Ile Leu Met Asn Leu Val Gly Pro Met 85 90 Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Thr Ala 105 Leu Lys Thr Ile Leu His Arg Thr Gly His Val Pro Glu 120 <210> 1086 <211> 322 <212> PRT <213> Unknown (H38g2 protein) <223> Synthetic construct <221> VARIANT <222> (1)...(322) <223> Xaa = Any Amino Acid <400> 1086 His Thr Glu Pro Arg Asn Leu Thr Asp Val Xaa Glu Phe Leu Leu 5 · 10 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser 25 Leu Ser Leu Ser Met Tyr Leu Val Thr Val Met Arg Asn Leu Leu Ser 40 45 Ile Leu Thr Val Ser Ser Val Ser Pro Leu His Thr Pro Met Tyr Phe 55 60 Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr Val Pro Thr Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Pro 90 His Ala Gly Cys Leu Thr Gln Met Tyr Phe Leu Val Phe Phe Ala Cys 100 105 110 Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala 120 125 Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys 135 140 Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln 150 155 Leu His Ser Xaa Ile Val Leu Gln Phe Asn Ile Ile Lys Asn Val Glu 165 170 Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys

180 185 190
Ser Asp Ser Val Ile Asn Ile Ile Phe Ile Tyr Phe Asp Ser Thr Met

200 195 205 Phe Ala Phe Leu Pro Ile Ser Gly Ile Leu Trp Ser Tyr Tyr Lys Ile 215 220 Val Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ser 230 235 Phe Ser Thr Cys Ala Ser His Leu Ala Val Val Cys Xaa Phe Asp Gly 245 250 Thr Gly Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg 270 260 265 Asn Gly Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu 280 Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asn Ile Gln Ser Ala Leu 295 300 Arg Arg Leu Arg Ser Arg Thr Val Glu Ser His Asp Leu Phe His Arg Phe Ser

<210> 1087

<211> 312

<212> PRT

<213> Unknown (H38g3 protein)

<220>

<223> Synthetic construct

260

<400> 1087

Met Asp Gly Asp Asn Gln Ser Glu Asn Ser Gln Phe Leu Leu Gly 10 Ile Ser Glu Ser Pro Glu Gln Gln Arg Ile Leu Phe Trp Met Phe Leu 25 Ser Met Tyr Leu Val Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala 35 40 Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ala 55 60 Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys 70 75 Met Leu Val Asn Phe Gln Ser Gln Asn Lys Ala Ile Ser Tyr Ala Gly 90 Cys Leu Thr Gln Leu Tyr Phe Leu Val Ser Leu Val Thr Leu Asp Asn 105 Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Thr Cys Cys 120 125 Pro Leu His Tyr Val Thr Ala Met Ser Pro Gly Leu Cys Val Leu Leu 135 140 Leu Ser Leu Cys Trp Gly Leu Ser Val Leu Tyr Gly Leu Leu Thr 150 155 Phe Leu Leu Thr Arg Val Thr Phe Cys Gly Pro Arg Glu Ile His Tyr 165 170 Leu Phe Cys Asp Met Tyr Ile Leu Leu Trp Leu Ala Cys Ser Asn Thr 180 185 His Ile Ile His Thr Ala Leu Ile Ala Thr Gly Cys Phe Ile Phe Leu 200 205 Thr Pro Leu Gly Phe Met Thr Thr Ser Tyr Val Arg Ile Val Arg Thr 215 220 Ile Leu Gln Met Pro Ser Ala Ser Lys Lys Tyr Lys Thr Phe Ser Thr 230 235 Cys Ala Ser His Leu Gly Val Val Ser Leu Phe Tyr Gly Thr Leu Ala 250 • 1 Met Val Tyr Leu Gln Pro Leu His Thr Tyr Ser Met Lys Asp Ser Val

270

265

.

Ala Thr Val Met Tyr Ala Val Leu Thr Pro Met Met Asn Pro Phe Ile 280 Tyr Arg Leu Arg Asn Lys Asp Met His Gly Ala Pro Gly Arg Val Leu 295 Trp Arg Pro Phe Gln Arg Pro Lys 310 <210> 1088 <211> 305 <212> PRT <213> Unknown (H38g4 protein) <220> <223> Synthetic construct <221> VARIANT <222> (1)...(305) <223> Xaa = Any Amino Acid <400> 1088 Met Arg Asn His Thr Leu Leu Asn Glu Phe Ile Leu Arg Gly Ile Pro 10 Gln Thr Glu Gly Leu Glu Ala Val Leu Cys Ala Val Phe Ser Phe Ile 20 25 Tyr Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Leu Ile Ala Ile Phe 40 Leu His Thr Pro Met Tyr Phe Phe Leu Gly Arg Leu Ser Thr Phe Asp 55 Ile Leu Phe Pro Ser Val Thr Cys Pro Lys Met Leu Leu Tyr Leu Ser 70 75 Gly Gln Ser Pro Val Ile Ser Phe Lys Gly Cys Ala Ser Gln Leu Phe 85 90 Phe Tyr Gln Leu Leu Gly Ser Ala Glu Gly Cys Leu Tyr Ser Val Met 105 Ser Tyr Asp Arg Phe Val Ala Ile His His Thr Leu Arg Tyr Met Leu 115 120 125 Ile Met Lys Pro Gly Val Cys Val Gly Leu Val Val Pro Trp Leu 135 140 Val Gly Cys Leu His Ala Thr Ile Leu Thr Ser Phe Thr Phe Gln Leu 150 155 Ser Tyr Cys Gly Pro Asn Gln Val Asp Tyr Phe Phe Cys Asp Ile Pro 165 170 Ala Val Leu Pro Leu Ala Cys Thr Asp Ser Ala Leu Ala Gln Arg Val 185 Gly Ser Ile Asn Val Gly Phe Leu Ala Leu Thr Leu Leu Ile Ser Val 195 200 205 Cys Val Cys Tyr Thr Ser Ile Gly Ile Ala Ile Leu Arg Ile Arg Ser 215 220 Ser Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Ser Ala His Leu Val 230 235 Ala Ile Leu Cys Ala Tyr Gly Pro Val Ile Ile Ile Tyr Leu Lys Ser 245 250 Thr Pro Asn Pro Leu Leu Gly Gly Gln Val Gln Ile Leu Asn Asn Val 260 265 Val Ser Pro Met Leu Asn Ser Leu Ile Tyr Ser Leu Arg Asn Lys Glu 280 285 Val Lys Arg Ser Leu Lys Arg Val Phe Xaa Asn Val Leu Leu Thr Val 295 300 305

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<210> 1089
<211> 317
<212> PRT
<213> Unknown (H38g5 protein)
<220>
<223> Synthetic construct
<400> 1089
Met Gly Thr Asp Asn Gln Thr Trp Val Ser Glu Phe Ile Leu Leu Gly
                                    10
Leu Ser Ser Asp Trp Asp Thr Arg Val Ser Leu Phe Val Leu Phe Leu
           20
                                25
Val Met Tyr Val Val Thr Val Leu Gly Asn Cys Leu Ile Val Leu Leu
                           40
Ile Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Thr
                       55
Asn Leu Ser Leu Val Asp Val Ser Tyr Ala Thr Ser Val Val Pro Gln
                   70
Leu Leu Ala His Phe Leu Ala Glu His Lys Ala Ile Pro Phe Gln Ser
               85
                                    90
Cys Ala Ala Gln Leu Phe Phe Ser Leu Ala Leu Gly Gly Ile Glu Phe
           100
                                105
                                                    110
Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asp
                            120
                                               125
Ala Leu Arg Tyr Ser Ala Ile Met His Gly Gly Leu Cys Ala Arg Leu
                        135
                                           140
Ala Ile Thr Ser Trp Val Ser Gly Phe Ile Ser Ser Pro Val Gln Thr
                    150
                                        155
Ala Ile Thr Phe Gln Leu Pro Met Cys Arg Asn Lys Phe Ile Asp His
                                    170
Ile Ser Cys Glu Leu Leu Ala Val Val Arg Leu Ala Cys Val Asp Thr
            180
                                185
                                                    190
Ser Ser Asn Glu Val Thr Ile Met Val Ser Ser Ile Val Leu Leu Met
        195
                            200
                                                205
Thr Pro Phe Cys Leu Val Leu Leu Ser Tyr Ile Gln Ile Ile Ser Thr
                        215
                                            220
Ile Leu Lys Ile Gln Ser Arg Glu Gly Arg Lys Lys Ala Phe His Thr
                   230
                                        235
Cys Ala Ser His Leu Thr Val Val Ala Leu Cys Tyr Gly Val Ala Ile
                245
                                    250
Phe Thr Tyr Ile Gln Pro His Ser Ser Pro Ser Val Leu Gln Glu Lys
           260
                               265
Leu Phe Ser Val Phe Tyr Ala Ile Leu Thr Pro Met Leu Asn Pro Met
       275
                           280
                                               285
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala Trp Gln Lys Leu
                       295
                                           300
Leu Trp Lys Phe Ser Gly Leu Thr Ser Lys Leu Ala Thr
                   310
<210> 1090
<211> 342
<212> PRT
<213> Unknown (H38g6 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(342)
<223> Xaa = Any Amino Acid
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<400> 1090
 Asp Thr Asp Pro Gln Ser Leu Thr Asp Val Ser Ile Phe Leu Leu Leu
                                     10
                 5
 Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Ile Ala Gly Leu Phe
 Leu Ser Met Cys Leu Val Thr Val Leu Glu Lys Leu Leu Ile Ile Met
                             40
 Ala Val Ser Pro Asp Phe His Leu His Thr Pro Met Tyr Phe Phe Leu
                         55
 Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
                     70
                                         75
 Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala
                85
                                    90
 Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
            100
                                105
                                                     110
 Glu Asn Met Leu Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Ile
                             120
                                                125
 Cys His Pro Pro Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly
                        135
                                            140
 Phe Gln Asp Leu Leu Ser Leu Phe Phe Phe Ser Phe Phe Phe Phe
 145
                    150
                                        155
 Leu Arg Leu Leu Asp Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met
               165
                                     170
Thr Cys Phe Lys Asp Val Glu Ile Ser Asn Val Phe Trp Glu Pro Ser
            180
                                185
Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr Arg Asn Ile Asn
        195
                             200
                                                 205
Leu Tyr Phe Pro Ala Ala Val Leu Gly Phe Leu Pro Ile Ser Gly Thr
                        215
                                             220
Leu Phe Ser Tyr Cys Lys Ile Val Ser Ser Ile Leu Arg Val Ser Ser
                    230
                                         235
Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser
                                    250
Ala Val Cys Xaa Phe Tyr Gly Thr Gly Val Gly Gly Tyr Leu Gly Ser
            260
                                265
Asp Val Ser Ser Ser Pro Arg Lys Ser Ala Val Ala Ser Val Met Tyr
        275
                            280
                                                285
Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn
                        295
                                            300
Arg Asp Met Lys Ser Val Leu Arg Arg Pro His Ser Ser Thr Val Xaa
                    310
                                        315
Ser Gln Tyr Leu Leu Ile Cys Ser Ile Pro Phe Val Gly Trp Val Lys
                325
                                    330
Lys Gly Ser Lys Val Lys
            340
<210> 1091
<211> 313
<212> PRT
<213> Unknown (H38g7 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(313)
<223> Xaa = Any Amino Acid
<400> 1091
Met Val Lys Gly Asn His Ser Thr Val Thr Glu Phe Asn Leu Ala Gly
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10
Leu Thr Asp Lys Pro Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu
            20
                                25
Gly Ile Tyr Val Val Thr Val Val Gly Asn Leu Ser Met Ile Thr Leu
                            40
Ile Gly Phe Ser Ser His Leu His Thr Pro Met Tyr His Phe Leu Ser
                       55
                                            60
Ser Leu Ser Phe Ile Asp Leu Cys Gln Ser Ser Val Ile Thr Pro Lys
                   70
                                        75
Met Leu Val Asn Phe Val Ser Glu Arg Asn Ile Ile Ser Tyr Pro Ala
                                   90
               85
Cys Met Thr Gln Leu Tyr Phe Phe Leu Val Leu Val Ile Ser Glu Cys
                               105
His Met Leu Ala Ala Met Ala Tyr Asp His Tyr Ile Ala Ile Cys Asn
                            120
Pro Leu Leu Tyr His Val Ala Met Ser Tyr Gln Val Cys Ser Trp Met
                       135
                                           140
Val Val Glu Val Tyr Phe Met Gly Phe Ile Gly Ala Ser Ala His Thr
                                       155
Val Cys Met Leu Arg Val Leu Phe Cys Lys Ala Asp Val Ile Asn His
               165
                                   170
Tyr Phe Cys Asp Leu Phe Pro Leu Leu Glu Leu Ser Arg Ser Ser Ile
                               185
           180
Ser Ile Asn Glu Ile Val Val Cys Ala Cys Ser Ala Phe Asn Ile Leu
                            200
                                                205
Phe Arg Ser Leu Thr Ile Leu Ser Ser Tyr Ile Phe Ile Val Ala Ser
                        215
                                            220
Ile Leu Cys Ile Arg Ser Thr Glu Gly Arg Ser Lys Thr Phe Ser Thr
                                        235
                   230
Cys Ser Ser His Ile Ser Ala Val Ser Val Phe Phe Gly Ser Ala Ala
                245
                                    250
Phe Met Tyr Leu Gln Pro Ser Ser Val Ser Ser Met Asp Gln Gly Lys
            260
                                265
Val Ser Ser Val Phe Tyr Ala Thr Val Val Pro Met Leu Asn Pro Leu
                            280
                                                285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Ile Lys Phe
                        295
Leu Glu Lys Arg Ser Phe Leu Xaa Lys
<210> 1092
<211> 328
<212> PRT
<213> Unknown (H38g8 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(328)
<223> Xaa = Any Amino Acid
<400> 1092
Met Gly Gln Glu Asn Lys Asn Gln Thr Trp Val Ser Glu Phe Ile Leu
                                    10
Leu Gly Ile Ser Ser Asp Trp Gly Ile Gln Val Ser Leu Phe Ala Leu
           20
                                25
Ile Leu Ala Met Tyr Leu Val Thr Ile Leu Gly Asn Thr Leu Ile Leu
                            40
                                                45
Leu Leu Ile Arg Leu Asp Asn Arg Leu His Thr Pro Met Tyr Phe Ser
```

```
Leu Ser Val Leu Ser Phe Val Asp Phe Cys Tyr Thr Lys Ser Ile Val
                   70
                                       75
Pro Gln Met Leu Ser His Leu Leu Ser Ala Arg Lys Ser Ile Pro Phe
                                  90
               85
Tyr Ser Cys Val Leu Gln Leu Tyr Val Ser Leu Ala Leu Cys Gly Ser
                              105
                                                   110
           100
Glu Phe Phe Leu Leu Gly Ala Met Ala Tyr Asp Arg Tyr Val Ala Val
                          120
                                               125
Cys His Pro Leu His Tyr Thr Val Ile Met His Gly Gly Leu Cys Leu
                       135
                                           140
Gly Leu Ala Ala Ser Arg Leu Val Ala Gly Phe Ser Asn Ser Leu Met
                   150
                                       155
Glu Thr Ile Ile Thr Phe Gln Leu Pro Val Ser Arg Phe Ile Asn His
                                   170
Phe Val Cys Glu Thr Leu Ala Val Leu Gln Leu Ala Cys Val Asp Val
                               185
           180
Pro Phe Asn Lys Val Met Val Ala Ile Ser Gly Phe Leu Val Ile Leu
                                               205
                           200
       195
Leu Pro Cys Ser Leu Val Leu Phe Ser Tyr Ala Cys Ile Val Ala Thr
                       215
                                           220
Ile Leu Cys Ile Arg Ser Thr Gln Val Arg Cys Lys Ala Phe Gly Thr
                                       235
                   230
Cys Ala Ser His Leu Ile Val Val Cys Met Cys Phe Gly Ala Thr Ile
              245
                                   250
Cys Thr Tyr Leu Gly Pro Gln Leu Ala Ser Ser Ala Glu Glu Glu Lys
                               265
                                                   270
Met Ile Ala Leu Phe Tyr Gly Val Val Ser Pro Met Leu Asn Pro Leu
                                               285
       275
                           280
Ile Tyr Ser Leu Arg Asn Lys Glu Val Thr Ala Ala Val Arg Lys Val
                      295
Leu Glu Arg Cys Arg Xaa Arg Val Lys Thr Leu Arg Thr Ser Cys Tyr
                                       315
                  310
Leu Ser Ser Lys Pro Lys Arg Arg
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<210> 1093

<211> 318

<212> PRT

<213> Unknown (H38g9 protein)

<220>

<223> Synthetic construct

<400> 1093

Met Asp Gln Ser Asn Tyr Ser Ser Leu His Gly Phe Ile Leu Leu Gly 10 Phe Ser Asn His Pro Lys Met Glu Met Ile Leu Ser Gly Val Val Ala 25 20 Ile Phe Tyr Leu Ile Thr Leu Val Gly Asn Thr Ala Ile Ile Leu Ala 40 45 Ser Leu Leu Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Arg 55 60 Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Ile Ile Pro Gln 75 70 Met Leu Val Asn Leu Trp Gly Pro Asp Lys Thr Ile Ser Tyr Val Gly 90 85 Cys Ile Ile Gln Leu Tyr Val Tyr Met Trp Leu Gly Ser Val Glu Cys 110 105 Leu Leu Leu Ala Val Met Ser Tyr Asp Arg Phe Thr Ala Ile Cys Lys 125 120 Pro Leu His Tyr Phe Val Val Met Asn Pro His Leu Cys Leu Lys Met

140

135

```
Ile Ile Met Ile Trp Ser Ile Ser Leu Ala Asn Ser Val Val Leu Cys
            150
                             155
Thr Leu Thr Leu Asn Leu Pro Thr Cys Gly Asn Asn Ile Leu Asp His
               165
                                   170
Phe Leu Cys Glu Leu Pro Ala Leu Val Lys Ile Ala Cys Val Asp Thr
                               185
            180
Thr Thr Val Glu Met Ser Val Phe Ala Leu Gly Ile Ile Val Leu
                            200
                                                205
        195
Thr Pro Leu Ile Leu Ile Leu Ile Ser Tyr Gly Tyr Ile Ala Lys Ala
                        215
                                            220
Val Leu Arg Thr Lys Ser Lys Ala Ser Gln Arg Lys Ala Met Asn Thr
                    230
                                        235
Cys Gly Ser His Leu Thr Val Val Ser Met Phe Tyr Gly Thr Ile Ile
                                    250
                245
Tyr Met Tyr Leu Gln Pro Gly Asn Arg Ala Ser Lys Asp Gln Gly Lys
            260
                                265
                                                    270
Phe Leu Thr Leu Phe Tyr Thr Val Ile Thr Pro Ser Leu Asn Pro Leu
                            280
                                                285
        275
Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys Asp Ala Leu Lys Lys Leu
                       295
Met Arg Phe His His Lys Ser Thr Lys Ile Lys Arg Asn Cys
                   310
<210> 1094
<211> 324
<212> PRT
<213> Unknown (H38g10 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(324)
<223> Xaa = Any Amino Acid
<400> 1094
His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
                5
                                   10
Gly Leu Ser Glu Asp Pro Glu Leu Gln Ser Val Leu Ala Leu Leu Ser
           20
                               25
Leu Ser Leu Ser Thr Tyr Leu Ala Thr Val Leu Arg Asn Val Leu Asn
                           40
                                               45
Ile Leu Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro Met Tyr Phe
                        55
Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr
                    70
                                       75
Val Pro Lys Met Ile Val Asp Met Gln Ser Tyr Ser Arg Val Ile Ser
                85
                                   90
His Glu Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys
            100
                               105
                                                   110
Ile Glu Gly Met Ile Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala
                           120
                                               125
Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
                       135
                                           140
Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
                   150
                                       155
Leu His Ser Xaa Ile Val Leu Gln Phe Asn Ile Ile Lys Asn Val Glu
                                   170
               165
                                                      175
Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Phe Leu Lys Leu Ala Cys
           180
                               185
```

130

Ser Asp Ser Val Ile Asn Ser Ile Phe Thr Tyr Phe His Ser Thr Met 200 Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Phe Ser Xaa Phe Lys Ile 215 220 Val Thr Phe Ile Leu Trp Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala 230 235 Phe Ser Thr Cys Asp Ser His Leu Ala Val Val Cys Xaa Phe Tyr Gly 245 250 Thr Gly Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg 260 265 270 Asn Gly Val Val Ala Ser Met Met Tyr Ala Val Val Thr Pro Met Leu 280 285 Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu 295 Arg Arg Leu Leu Ser Arg Thr Val Glu Ser Pro Xaa Ser Val Pro Ser 310 315 Phe Phe Leu Cys

<210> 1095

<211> 311

<212> PRT

<213> Unknown (H38gl1 protein)

<220>

<223> Synthetic construct

<400>.1095

Met Glu Leu Glu Asn Gln Thr Arg Val Thr Lys Phe Ile Leu Val Gly 10 Phe Pro Gly Ser Leu Ser Met Arg Ala Ala Met Phe Leu Ile Phe Leu 20 25 Val Ala Tyr Ile Leu Thr Val Ala Glu Asn Val Ile Ile Ile Leu Leu 35 40 45 Val Leu Gln Asn Arg Pro Leu His Lys Pro Met Tyr Phe Phe Leu Ala 55 60 Asn Leu Ser Phe Leu Glu Thr Trp Tyr Ile Ser Val Thr Val Pro Lys 70 75 Leu Leu Phe Ser Phe Trp Ser Val Asn Asn Ser Ile Ser Phe Thr Leu 85 90 Cys Met Ile Gln Leu Tyr Phe Phe Ile Ala Leu Met Cys Thr Glu Cys 105 Val Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg 120 125 Pro Leu His Tyr Pro Thr Ile Met Ser His Gly Leu Cys Phe Arg Leu 135 140 Ala Leu Gly Ser Trp Ala Ile Gly Phe Gly Ile Ser Leu Ala Lys Ile 150 155 Tyr Phe Ile Ser Cys Leu Ser Phe Cys Gly Pro Asn Val Ile Asn His 165 170 Phe Phe Cys Asp Ile Ser Pro Val Leu Asn Leu Ser Cys Thr Asp Met 180 185 Ser Ile Thr Glu Leu Val Asp Phe Ile Leu Ala Leu Val Ile Phe Leu 200 Phe Pro Leu Phe Ile Thr Val Leu Ser Tyr Gly Cys Ile Leu Ala Thr 215 220 Ile Leu Cys Met Pro Thr Gly Lys Gln Lys Ala Phe Ser Thr Cys Ala 230 235 Ser His Leu Val Val Val Thr Ile Phe Tyr Ser Ala Ile Ile Phe Met 245 250 Tyr Ala Arg Pro Arg Val Ile His Ala Phe Asn Met Asn Lys Ile Ile

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260
                               265
                                                   270
Ser Ile Phe Tyr Ala Ile Val Thr Pro Ser Leu Asn Pro Phe Ile Tyr
                280
                                   285
Cys Leu Arg Asn Arg Glu Val Lys Glu Ala Leu Lys Lys Leu Ala Tyr
                      295
Cys Gln Ala Ser Arg Ser Asp
<210> 1096
<211> 313
<212> PRT
<213> Unknown (H38g12 protein)
<220>
<223> Synthetic construct
<400> 1096
Met Glu Gln Val Asn Lys Thr Val Val Arg Glu Phe Val Val Leu Gly
                                   10
Phe Ser Ser Leu Ala Arg Leu Gln Gln Leu Leu Phe Val Ile Phe Leu
                               25
Leu Leu Tyr Leu Phe Thr Leu Gly Thr Asn Ala Ile Ile Ser Thr
                           40
Ile Val Leu Asp Arg Ala Leu His Thr Pro Met Tyr Phe Phe Leu Ala
                       55
                                           60
Ile Leu Ser Cys Ser Glu Ile Cys Tyr Thr Phe Val Ile Val Pro Lys
                   70
                                      75
Met Leu Val Asp Leu Leu Ser Gln Lys Lys Thr Ile Ser Phe Leu Gly
                                   90
Cys Ala Ile Gln Met Phe Ser Phe Leu Phe Phe Gly Ser Ser His Ser
           100
                               105
Phe Leu Leu Ala Ala Met Gly Tyr Asp Arg Tyr Met Ala Ile Cys Asn
       115
                           120
                                               125
Pro Leu Arg Tyr Ser Val Leu Met Gly His Gly Val Cys Met Gly Leu
                      135
                                          140
Met Ala Ala Cys Ala Cys Gly Phe Thr Val Ser Leu Val Thr Thr
                   150
                                      155
Ser Leu Val Phe His Leu Pro Phe His Ser Ser Asn Gln Leu His His
              165
                                  170
Phe Phe Cys Asp Ile Ser Pro Val Leu Lys Leu Ala Ser Gln His Ser
           180
                               185
                                                  190
Gly Phe Ser Gln Leu Val Ile Phe Met Leu Gly Val Phe Ala Leu Val
                           200
                                              205
Ile Pro Leu Leu Ile Leu Val Ser Tyr Ile Arg Ile Ile Ser Ala
                       215
                                           220
Ile Leu Lys Ile Pro Ser Ser Val Gly Arg Tyr Lys Thr Phe Ser Thr
                   230
                                       235
Cys Ala Ser His Leu Ile Val Val Thr Val His Tyr Ser Cys Ala Ser
               245
                                   250
                                                      255
Phe Ile Tyr Leu Arg Pro Lys Thr Asn Tyr Thr Ser Ser Gln Asp Thr
                               265
Leu Ile Ser Val Ser Tyr Thr Ile Leu Thr Pro Leu Phe Asn Pro Met
                           280
                                              285
Ile Tyr Ser Leu Arg Asn Lys Glu Phe Lys Ser Ala Leu Arg Arg Thr
                      295
Ile Gly Gln Thr Phe Tyr Pro Leu Ser
                   310
<210> 1097
<211> 318
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<212> PRT

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<213> Unknown (H38g13 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(318)
<223> Xaa = Any Amino Acid
<400> 1097
Cys Val Asp Ser Ser Leu Lys Xaa Glu Ile Thr Gln Xaa Cys Leu Ser
                                    10
1
Leu Leu Xaa Met Ala Glu Gly Trp Arg Leu Tyr Phe Ile Ile Leu
           20
                                25
Ile Ile Ser Tyr Lys Phe Cys Thr Leu Leu Gly Asn Val Ile Phe Arg
                            40
                                                45
Thr Leu Val Cys Ser Leu Gly Phe His Thr Ser Cys Met Tyr Phe Phe
Pro Xaa Lys Ile Ser Leu Xaa Leu Ala Xaa Val Cys His Ser Ile Ile
Ala Leu Pro Ser Thr Gln Lys Xaa Ala Ile Asn Val Gln Gly Ala Ala
                                    90
               85
Val His Val Phe Ser Phe Pro Cys Leu Tyr Cys Pro Glu Ile Phe Leu
                               105
           100
His Ser Leu Thr Gln Cys His Pro Phe Ile Ala Ile Gly Tyr Pro Leu
                                                125
                            120
       115
Gln Gly Met His Thr Ile Thr His Lys Leu Tyr Ile Leu Leu Thr Thr
                                           140
                       135
Gly Pro Trp Arg Gly Cys Xaa Leu His Val Asn Leu Leu Thr Ala Ile
                                        155
145
                   150
Leu Gly Ser Tyr Pro Asn Pro Val Pro Thr Lys Leu Trp Leu Ser Phe
                                    170
               165
Pro Ser Ile Pro Glu Val Lys Leu Xaa Pro Met Gln Ala Tyr Thr Lys
                                185
Pro Tyr Ala Gly Leu Ser Leu Cys Leu Ser Leu Ser Leu Ser Leu Ser
                                                205
                            200
Phe Ser Leu Phe Ser Ile Ile Ser Ile Ser Tyr Ile Cys Asn Glu Ile
                       215
                                            220
Asp Ile Pro Lys Ile Ile Ser Ala Asp Ser Val His Gly Ala Phe Ser
                   230
                                        235
Thr Cys Leu Ala His Leu Phe Ala Phe Ser Thr Cys Ile Ala Gln Pro
                                    250
               245
Ala Val Cys Asn Ser Leu Trp Pro Trp Thr Glu Ala Gln Thr Glu Ser
                                265
                                                    270
Ser Arg Asp Ser Val Ile Gln Arg Pro Asn Leu Cys Val Thr Ile Ser
                                                285
       275
                            280
Leu Asn Ser Leu Ile Ser Ser Leu Arg Asn Glu Ser Val Lys Gln Ala
                       295
                                           300
Ser His Lys Ile Phe Lys Glu Gln Thr Leu Phe Met Lys Ile
<210> 1098
<211> 333
<212> PRT
<213> Unknown (H38g14 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1) ... (333)
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<223> Xaa = Any Amino Acid

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<400> 1098
Met Asp Gly Glu Asn His Ser Val Val Ser Glu Phe Leu Phe Leu Gly
Leu Thr His Ser Trp Glu Ile Gln Leu Leu Leu Val Phe Ser Ser
Val Leu Tyr Val Ala Ser Ile Thr Gly Asn Ile Leu Ile Val Phe Ser
                           40
Val Thr Thr Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
                       55
                                           60
Ser Leu Ser Phe Ile Asp Leu Gly Ala Cys Ser Val Thr Ser Pro Lys
                   70
                                       75
Met Ile Tyr Asp Leu Phe Arg Lys Arg Lys Val Ile Ser Phe Gly Gly
               85
                                   90
Cys Ile Ala Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met
                               105
Val Leu Leu Ile Ala Met Ala Phe Asp Ser Tyr Val Ala Leu Cys Lys
                           120
Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Ser Phe
                       135
Leu Ala Val Ala Trp Thr Leu Gly Val Ser His Ser Leu Phe Gln Leu
                   150
                                      155
Ala Phe Leu Val Asn Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Ser
               165
                                  170
Phe Tyr Cys Asp Leu Pro Gln Leu Leu Arg Leu Ala Cys Thr Asp Thr
           180
                              185
Tyr Arg Leu Gln Phe Met Val Thr Val Asn Ser Gly Phe Ile Cys Val
                          200
                                              205
Gly Thr Phe Phe Ile Leu Leu Ile Ser Tyr Ile Phe Ile Leu Phe Thr
                       215
                                          220
Val Trp Lys His Ser Ser Gly Gly Ser Ser Lys Ala Leu Ser Thr Leu
                   230
                                      235
Ser Ala His Ser Thr Ala Val Leu Leu Phe Phe Gly Pro Pro Met Phe
               245
                                   250
Val Tyr Thr Trp Pro His Pro Asn Ser Gln Met Asp Lys Phe Leu Ala
           260
                               265
                                                  270
Ile Phe Asp Ala Val Leu Thr Pro Phe Leu Asn Pro Val Val Tyr Thr
                           280
                                              285
Phe Arg Asn Lys Glu Met Lys Ala Ala Ile Lys Arg Val Cys Lys Gln
                       295
                                          300
Leu Val Ile Tyr Lys Lys Ile Ser Xaa Met Ile Gln Xaa Ala Leu Leu
                  310
Val Lys His Asp Met Ala Leu Cys Phe Phe Leu Xaa Tyr
               325
<210> 1099
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- <211> 322
- <212> PRT
- <213> Unknown (H38g15 protein)
- <220>
- <223> Synthetic construct
- <221> VARIANT
- <222> (1)...(322)
- <223> Xaa = Any Amino Acid
- <400> 1099
- His Thr Gly Pro Arg Asn Leu Thr Asp Val Xaa Glu Phe Leu Leu Leu 5 10

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Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Leu Leu Thr Leu Leu Ser
Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser
                            40
Ile Leu Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro Met Tyr Phe
                        55
Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Xaa Ala Thr
                    70
                                         75
Val Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser
                85
                                    90
His Ala Val Cys Leu Ile Gln Met Ser Leu Leu Val Leu Phe Ala Cys
                                105
Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala
                            120
                                                125
Ile Cys Cys Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
                        135
                                            140
Val Phe Phe Val Leu Val Ser Phe Leu Leu Ser Leu Leu Asp Ser Gln
                    150
                                        155
Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu
                                    170
                165
                                                         175
Ile Ser Asn Ser Val Cys Asp Pro Ser His Leu Leu Lys Leu Ala Cys
            180
                                185
Ser Asp Ser Val Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met
                            200
                                                205
Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Trp Ser Tyr Tyr Lys Ile
                        215
                                            220
Val Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala
                    230
                                        235
Phe Ser Thr Cys Ala Ser His Leu Ala Val Val Cys Xaa Phe Tyr Gly
                                    250
               245
Thr Gly Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg
            260
                                265
                                                    270
Asn Gly Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu
       275
                            280
                                                285
Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu
                        295
Arg Arg Leu Arg Ser Arg Thr Val Glu Ser His Asp Leu Phe His Arg
305
                    310
                                        315
Phe Ser
```

- <210> 1100
- <211> 279
- <212> PRT
- <213> Unknown (H38g16 protein)
- <220>
- <223> Synthetic construct
- <400> 1100
- Met Tyr Leu Ala Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala Ile

  1 10 15
- Ser Ile Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn 20 25 30
- Met Ser Phe Val Asp Asn Cys Phe Ser Thr Thr Val Pro Lys Met Leu 35 40 45
- Ala Asn His Ile Leu Arg Thr Gln Thr Ile Ser Phe Ser Gly Cys Leu 50 55 60
- Met Gln Met Tyr Phe Ile Ser Glu Leu Ala Asp Met Asp Asn Phe Leu 65 70 75 80
- Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys Arg Pro Leu

```
90
 His Tyr Thr Ala Lys Met Thr His Gln Leu Cys Ala Leu Leu Val Thr
                                 105
 Gly Ser Trp Val Val Ala Asn Ser Asn Ala Leu Leu His Thr Leu Leu
         115
                             120
                                                 125
 Met Ala Arg Leu Ser Phe Cys Ala Asp Asn Thr Ile Pro His Ile Phe
                         135
                                             140
 Cys Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu
                     150
                                         155
 Ser Glu Val Met Ile Leu Thr Glu Ala Ala Leu Val Thr Ile Thr Pro
                                     170
 Phe Leu Cys Leu Leu Ala Ser Tyr Met His Ile Thr Cys Val Val Leu
                                 185
                                                     190
 Arg Val Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe Ser Thr Cys Gly
                            200
 Ser His Leu Ala Val Val Leu Leu Phe Tyr Gly Thr Ile Met Ser Pro
                        215
                                             220
 Tyr Phe Arg Thr Ser Ser Ser His Ser Ala Gln Arg Asp Ile Ala Ala
                    230
                                         235
 Ala Val Arg Phe Thr Val Val Thr Pro Val Met Asn Pro Leu Ile Tyr
                245
                                    250
 Ser Leu Arg Asn Lys Asp Ile Lys Gly Ala Leu Val Lys Val Val Ala
                                 265
 Val Lys Phe Phe Ser Val Gln
        275
<210> 1101
<211> 257
<212> PRT
<213> Unknown (H38g17 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(257)
<223> Xaa = Any Amino Acid
<400> 1101
Phe Ile Leu Trp Gly Phe Phe Asp His Pro Xaa Pro Glu Met Phe Leu
Phe Ile Met Gly Leu Val Gly Leu Ser Leu His Thr Gly Gly Gln His
            20
                                25
Leu Asn Tyr Cys Gly Thr Gln Gly Ile Phe Xaa Gly Ser Thr Lys Cys
                            40
Ile Ile Leu Ala Val Thr Ser Leu Asp Pro Tyr Ile Ala Ile Cys Lys
                        55
                                            60
His Leu Arg Tyr Pro Ala Ile Met His Gln Gln Leu Cys Val Leu Leu
                    70
                                        75
Val Ala Met Ala Trp Leu Ser Ser Leu Ala Asn Ser Leu Gln Ser Ser
                85
                                    90
Leu Ala Val Gln Leu Pro Leu Gly Gly Asn Lys Val Asp Asp Phe Leu
            100
                                105
Cys Glu Val Ser Ala Met Ile Lys Ile Ser Arg Phe Asp Thr Thr Phe
        115
                            120
                                                125
Asn Val Ser Met Leu Ser Ile Val Arg Ile Phe Xaa Ser Leu Val Leu
                        135
                                            140
Xaa Ser Ile Ile Phe Ala Tyr Cys Gly Phe Ile Val Ala Thr Val Leu
                    150
                                        155
Arg Ile Gln Ser Ser Gly Gly Lys Lys Glu Val Phe Asn Thr Cys Gly
             · 165
                                    170
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Ser His Ile Val Ser Leu Leu Tyr Gly Pro Val Ile Ser Met Tyr Val
                              185
Gln Pro Ser Ala Asn Ser Gln Asp Lys Asn Lys Phe Met Ser Leu Phe
                          200
                                              205
Tyr Ser Leu Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Thr Leu Ser
                                           220
                      215
Asn Arg Asp Ile Lys Gly Ala Met Arg Arg Leu Leu Val Phe Leu Tyr
                  230
                                       235
His Gln Glu Glu Asn Lys Ser Asn Tyr Cys Leu Tyr Ser Thr Phe Phe
                                   250
Ile
<210> 1102
<211> 334
<212> PRT
<213> Unknown (H38g18 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(334)
<223> Xaa = Any Amino Acid
<400> 1102
Ser Thr Asp Pro Gln Asn Val Thr Asp Val Ser Arg Phe Leu Leu Leu
                            10
           5
Lys Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Phe
                            . 25
        20
Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
                                             45
                           40
Ala Val Ser Pro Asp Ser His Leu His Thr Ser Met Tyr Phe Phe Leu
                    55
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Pro Ser Pro Thr Val Pro
                   70
Lys Met Val Val Asp Ile Gln Ser His Arg Val Ile Ser Tyr Ala Gly
                                  90
               85
Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu
                               105
Asn Met Leu Leu Asn Val Met Ala Tyr Val Arg Phe Val Ala Ile Cys
                          120
                                              125
His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe
                                          140
                      135
Leu Leu Leu Ser Phe Phe Phe Leu Gly Leu Leu Asp Ala Gln Leu
                  150
                                       155
His Asn Met Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu Ile
               165
                                   170
                                                      175
Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys
                               185
Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Val Phe
                          200
       195
Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Ser Lys Ile Val
                      215
                                          220
Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Pro Cys
                  230
                                       235
Ser Thr Cys Gly Ser His Leu Ser Val Phe Cys Xaa Phe Tyr Gly Thr
                                                      255
                                  250
              245
Gly Ile Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Leu Arg Lys
                               265
           260
Ala Ala Val Ala Ser Leu Met Tyr Lys Met Val Thr Pro Met Leu Asn
```

```
275
                            280
                                                285
Pro Ser Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser Val Leu Arg
                     295
                                   300
Gln Pro His Gly Ser Thr Val Xaa Ser Gln Asp Leu Leu Ile Cys Ser
                    310
                                        315
Ile Pro Phe Val Val Trp Val Lys Lys Gly Ser Lys Val Lys
                                    330
<210> 1103
<211> 333
<212> PRT
<213> Unknown (H38g19 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(333)
<223> Xaa = Any Amino Acid
<400> 1103
Met Asp Gly Glu Asn His Ser Val Val Ser Glu Phe Leu Phe Leu Gly
                                    10
Leu Thr His Ser Trp Glu Ile Gln Leu Leu Leu Leu Val Phe Ser Ser
            20
                                25
Val Leu Tyr Val Ala Ser Ile Thr Gly Asn Ile Leu Ile Val Phe Ser
                            40
Val Thr Thr Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
                       55
                                           60
Ser Leu Ser Phe Ile Asp Leu Gly Ala Cys Ser Val Thr Ser Pro Lys
                   70
                                       75
Met Ile Tyr Asp Leu Phe Arg Lys Arg Lys Val Ile Ser Phe Gly Gly
                                   90
Cys Ile Ala Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met
           100
                               105
Val Leu Leu Ile Ala Met Ala Phe Asp Ser Tyr Val Ala Leu Cys Lys
                           120
                                              125
Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Ser Phe
                        135
                                           140
Leu Ala Val Ala Trp Thr Leu Gly Val Ser His Ser Leu Phe Gln Leu
                   150
                                        155
Ala Phe Leu Val Asn Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Ser
               165
                                    170
Phe Tyr Cys Asp Leu Pro Arg Leu Leu Arg Leu Ala Cys Thr Asp Thr
                               185
Tyr Arg Leu Gln Phe Met Val Thr Val Asn Ser Gly Phe Ile Cys Val
                           200
                                               205
Gly Thr Phe Phe Ile Leu Val Ile Ser Tyr Ile Phe Ile Leu Phe Thr
                       215
                                           220
Val Trp Lys His Ser Ser Gly Gly Ser Ser Lys Ala Leu Ser Thr Leu
                   230
                                       235
Ser Ala His Ser Thr Ala Val Leu Leu Phe Phe Gly Pro Pro Met Phe
               245
                                   250
Val Tyr Thr Trp Pro His Pro Asn Ser Gln Met Asp Lys Phe Leu Ala
                               265
           260
Ile Phe Asp Ala Val Leu Thr Pro Phe Leu Asn Pro Val Val Tyr Thr
                           280
                                               285
Phe Arg Asn Lys Glu Met Lys Ala Ala Ile Lys Arg Val Cys Lys Gln
                       295
                                           300
Leu Val Ile Tyr Lys Lys Ile Ser Xaa Met Ile Gln Xaa Ala Leu Leu
                   310
                                       315
```

Val Lys His Asp Met Ala Leu Cys Phe Phe Leu Xaa Tyr 325 330

<210> 1104

<211> 339

<212> PRT

<213> Unknown (H38g20 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(339)

<223> Xaa = Any Amino Acid

325

<400> 1104

Asp Thr Asp Pro Gln Ser Leu Thr Asp Val Ser Ile Phe Leu Leu Leu 10 Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Phe 20 25 Leu Ser Met Cys Leu Val Thr Val Leu Arg Asn Leu Leu Ile Ile Leu 40 Ala Ile Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu 55 60 Ser Asn Leu Ser Phe Pro Asp Ser Arg Phe Thr Ser Thr Thr Val Pro 70 Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala 85 90 95 Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Asp Met Glu 100 105 110 Glu Asn Met Phe Leu Ser Val Val Ala Tyr Asp Arg Phe Val Ala Ile 120 125 Cys His Pro Leu Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly 135 140 Phe Leu Asp Ser Leu Ser Leu Phe Phe Phe Phe Phe Leu Ser Leu 150 155 Leu Asp Ser Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe 170 175 Lys Asp Val Glu Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro 185 His Leu Ala Cys Cys Asp Ile Phe Thr Arg Asn Ile Asn Leu Tyr Phe 200 205 Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser 215 220 Tyr Tyr Lys Ile Val Ser Phe Ile Leu Arg Val Ser Ser Ser Gly Gly 230 235 Lys Tyr Lys Ala Phe Ser Ala Cys Gly Ser His Leu Ser Val Val Tyr 245 250 Xaa Val Tyr Gly Thr Gly Phe Gly Gly Tyr Leu Ser Ser Asp Val Ser 260 265 270 Ser Ser Pro Arg Lys Gly Ala Val Ala Ser Val Met Tyr Thr Val Val 280 285 Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Gly Asp Ile 295 300 Lys Ser Val Leu Arg Gln Pro His Gly Ser Thr Val Xaa Ser Gln Tyr 310 315 Leu Leu Ile Cys Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Ser

330

Lys Val Lys

```
<210> 1105
<211> 314
<212> PRT
<213> Unknown (H38g21 protein)
<223> Synthetic construct
<400> 1105
Met Glu Thr Arg Lys Tyr Ser Ala Met Thr Glu Phe Phe Leu Val Gly
Leu Ser Gln Tyr Pro Glu Leu Gln Leu Phe Leu Phe Leu Cys Leu
                               25
           20
Ile Met Tyr Met Ile Ile Leu Leu Gly Asn Ser Leu Leu Ile Ile
                           40
Thr Ile Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly
                       55
                                           60
Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Ser Ser Ser Ile Pro Pro
                                       75
                   70
Met Leu Ile Ile Phe Met Ser Glu Arg Lys Ser Ile Ser Phe Ile Gly
               85
                                   90
Cys Ala Leu Gln Met Val Val Ser Leu Gly Leu Gly Ser Thr Glu Cys
           100
                               105
                                                   110
Val Leu Leu Ala Val Met Ala Tyr Asp His Tyr Val Ala Ile Cys Asn
                           120
Pro Leu Arg Tyr Ser Ile Ile Met Asn Gly Val Leu Tyr Val Gln Met
                       135
                                           140
Ala Ala Trp Ser Trp Ile Ile Gly Cys Leu Thr Ser Leu Leu Gln Thr
                   150
                                       155
Val Leu Thr Met Met Leu Pro Phe Cys Gly Asn Asn Val Ile Asp His
               165
                                   170
Ile Thr Cys Glu Ile Leu Ala Leu Leu Lys Leu Val Cys Ser Asp Ile
                               185
Thr Ile Asn Val Leu Ile Met Thr Val Thr Asn Ile Val Ser Leu Val
                           200
                                               205
Ile Leu Leu Leu Ile Phe Ile Ser Tyr Val Phe Ile Leu Ser Ser
                       215
                                           220
Ile Leu Arg Ile Asn Cys Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr
                    230
                                       235
Cys Ser Ala His Ser Ile Val Val Ile Leu Phe Tyr Gly Ser Ala Leu
                245
                                   250
Phe Met Tyr Met Lys Pro Lys Ser Lys Asn Thr Asn Thr Ser Asp Glu
            260
                               265
Ile Ile Gly Leu Ser Tyr Gly Val Val Ser Pro Met Leu Asn Pro Ile
       275
                           280
                                               285
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Val Lys Lys Val
                       295
Leu Ser Arg His Leu His Leu Leu Lys Met
                   310
<210> 1106
<211> 319
<212> PRT
<213> Unknown (H38g22 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(319)
```

<223> Xaa = Any Amino Acid

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<400> 1106
 Met Lys Asn Lys Arg Asn Val Thr Glu Phe Val Leu Thr Gly Leu Thr
                                     10
 Gln Asn Pro Lys Met Glu Lys Val Met Phe Ala Val Phe Leu Val Leu
            20
                                 25
 Tyr Met Ile Thr Leu Ser Gly Asn Leu Leu Leu Val Val Thr Ile Thr
                             40
 Thr Ser Gln Ala Leu Ser Ser Pro Met Tyr Phe Phe Leu Ser His Leu
                        55
 Ser Leu Ile Asp Thr Val Tyr Ser Ser Ser Ser Ala Pro Lys Leu Ile
                    70
Val Asp Ser Leu His Glu Lys Lys Ile Ile Ser Phe Asn Gly Cys Met
                                    90
Ala Gln Ala Tyr Glu Glu His Ile Phe Gly Ala Thr Glu Ile Ile Leu
            100
                                105
Leu Thr Val Met Ala Cys Asp Asn Tyr Val Ala Ile Cys Lys Pro Leu
        115
                            120
                                         . 125
His Tyr Thr Thr Ile Met Ser His Ser Leu Cys Ile Leu Leu Val Val
                        135
                                           140
Val Ala Trp Ile Gly Gly Phe Leu His Ala Asn Ile Gln Ile Leu Phe
                    150
                                        155
Thr Val Trp Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Met
                165
                                    170
Cys Asp Leu Cys Pro Leu Leu Lys Leu Val Cys Leu Asp Thr His Thr
            180
                                185
                                                    190
Leu Gly Leu Phe Val Ala Ala Asn Ser Gly Phe Ile Cys Leu Leu Asn
                            200
                                                205
Phe Leu Leu Xaa Val Val Ser Tyr Val Ile Ile Leu Arg Cys Leu Lys
                        215
                                            220
Asn Tyr Ile Leu Glu Gly Arg Gly Lys Ala Leu Ser Thr Cys Ile Ser
                    230
                                        235
His Ile Ile Val Val Leu Phe Phe Val Pro Cys Ile Phe Val Tyr
                245
                                    250
Leu His Pro Val Thr Thr Leu Pro Ile Asp Lys Ala Ala Ala Val Phe
            260
                                265
                                                    270
Tyr Thr Met Val Val Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
        275
                            280
                                                285
Asn Ala Glu Val Lys Ser Ala Ile Arg Lys Leu Trp Arg Lys Lys Val
                                          300
                . 295
Ile Ser Asp Asn Asp Xaa Ile Arg Pro Leu Ser Thr His His Arg
                    310
<210> 1107
<211> 311
<212> PRT
<213> Unknown (H38g23 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1) . . . (311)
<223> Xaa = Any Amino Acid
<400> 1107
Met Arg Asn Phe Ser Val Val Ser Glu Phe Ile Leu Leu Gly Ile Pro
1
                                    10
His Thr Glu Gly Leu Glu Thr Ile Leu Leu Val Leu Phe Leu Ser Phe
                                25
```

Tyr Ile Phe Thr Leu Met Gly Asn Leu Leu Ile Leu Leu Ala Ile Val

40

35

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Ser Ser Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Cys Lys Leu
                        55
                                            60
 Ser Val Phe Asp Leu Phe Phe Pro Ser Val Ser Ser Pro Lys Met Leu
                    70
                                        75
 Cys Tyr Leu Ser Gly Asn Ser Arg Ala Ile Ser Tyr Ala Gly Cys Ala
                                    90
                85
 Ser Gln Leu Phe Phe Tyr His Phe Leu Gly Cys Thr Glu Cys Phe Leu
            100
                                105
 Tyr Thr Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
        115
                            120
                                                125
 Arg Tyr Thr Ile Ile Met Ser His Arg Ala Cys Ile Ile Leu Ala Met
                        135
                                            140
 Gly Thr Ser Phe Phe Gly Cys Ile Gln Ala Thr Phe Leu Thr Thr Leu
                    150
                                        155
 Thr Phe Gln Leu Pro Tyr Cys Val Pro Asn Glu Val Asp Tyr Tyr Phe
                165
                                    170
                                                        175
 Cys Asp Ile Pro Val Met Leu Lys Leu Ala Cys Ala Asp Thr Ser Ala
                                185
Leu Glu Met Val Gly Phe Ile Ser Val Gly Leu Met Pro Leu Ser Cys
                            200
Phe Leu Leu Ile Leu Thr Ser Tyr Ser Gly Ile Val Phe Ser Ile Leu
                        215
                                            220
Xaa Ile Cys Ser Ala Glu Gly Arg Arg Ala Phe Ser Thr Cys Ser
                    230
                                        235
Ala His Leu Thr Ala Ile Leu Leu Phe Tyr Met Pro Val Val Leu Ile
                245
                                    250
Tyr Leu Arg Pro Thr His Ser Leu Trp Leu Asp Ala Thr Val Gln Ile
                                265
Leu Asn Asn Leu Val Thr Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu
                            280
Arg Asn Lys Glu Val Lys Leu Ser Leu Arg Lys Val Leu Tyr Gln Leu
                       295
                                           300
Gly Phe Leu Pro Glu Gln Leu
305
<210> 1108
<211> 302
<212> PRT
<213> Unknown (H38g24 protein)
<220>
<223> Synthetic construct
<400> 1108
Met Asp Ile Pro Gln Asn Ile Thr Glu Phe Phe Met Leu Gly Leu Ser
                                    10
Gln Asn Ser Glu Val Gln Arg Val Leu Phe Val Val Phe Leu Leu Ile
                                25
Tyr Val Val Thr Val Cys Gly Asn Met Leu Ile Val Val Thr Ile Thr
                            40
Ser Ser Pro Thr Leu Ala Ser Pro Val Tyr Phe Phe Leu Ala Asn Leu
Ser Phe Ile Asp Thr Phe Tyr Ser Ser Ser Met Ala Pro Lys Leu Ile
Ala Asp Ser Leu Tyr Glu Gly Arg Thr Ile Ser Tyr Glu Cys Cys Met
                85
                                   90
Ala Gln Leu Phe Gly Ala His Phe Leu Gly Gly Val Glu Ile Ile Leu
                                105
Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
                            120
```

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His Asn Thr Thr Ile Met Thr Arg His Leu Cys Ala Met Leu Val Gly
                       135
                                            140
Val Ala Trp Leu Gly Gly Phe Leu His Ser Leu Val Gln Leu Leu Leu
                                        155
                    150
Val Leu Trp Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Phe Ala
                165
                                   170
Cys Asp Leu Tyr Pro Leu Leu Glu Val Ala Cys Thr Asn Thr Tyr Val
                                185
           180
Ile Gly Leu Leu Val Val Ala Asn Ser Gly Leu Ile Cys Leu Leu Asn
                                                205
       195
                           200
Phe Leu Met Leu Ala Ala Ser Tyr Ile Val Ile Leu Tyr Ser Leu Arg
                       215
                                           220
Ser His Ser Ala Asp Gly Arg Cys Lys Ala Leu Ser Thr Cys Gly Ala
                                       235
                   230
His Phe Ile Val Val Ala Leu Phe Phe Val Pro Cys Ile Phe Thr Tyr
                                   250
               245
Val His Pro Phe Ser Thr Leu Pro Ile Asp Lys Asn Met Ala Leu Phe
                               265.
                                                    270
           260
Tyr Gly Ile Leu Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
                           280
                                               285
Asn Glu Glu Val Lys Asn Ala Met Arg Lys Leu Phe Thr Trp
                      295
```

<210> 1109

<211> 266

<212> PRT

<213> Unknown (H38g25 protein)

<220>

<223> Synthetic construct

<400> 1109

Met Ile Thr Leu Ile Gly Leu Ser Ser His Leu His Thr Pro Met Tyr 5 10 Tyr Phe Leu Ser Ser Leu Ser Phe Ile Asp Phe Cys His Ser Thr Val 25 20 Ile Thr Pro Lys Met Leu Val Asn Phe Ala Thr Glu Lys Asn Ile Ile 40 45 Ser Tyr Pro Glu Cys Met Ala Gln Leu Tyr Leu Phe Ser Ile Phe Ala 55 Ile Ala Glu Cys His Met Leu Ala Ala Met Ala Tyr Asp Cys Tyr Val 70 75 Ala Ile Cys Ser Pro Leu Leu Tyr Asn Val Ile Met Ser Tyr His His 90 Cys Phe Trp Leu Thr Val Gly Val Tyr Ile Leu Gly Ile Leu Gly Ser 110 100 105 Thr Ile His Thr Ser Phe Met Leu Arg Leu Phe Leu Cys Lys Thr Asn 120 125 115 Val Ile Asn His Tyr Phe Cys Asp Leu Phe Pro Leu Leu Gly Leu Ser 140 135 Cys Ser Ser Thr Tyr Ile Asn Glu Leu Leu Val Leu Val Leu Ser Ala 150 155 Phe Asn Ile Leu Met Pro Ala Leu Thr Ile Leu Ala Ser Tyr Ile Phe 170 165 Ile Ile Ala Ser Ile Leu Arg Ile His Ser Thr Glu Gly Arg Ser Lys 185 190 180 Ala Phe Ser Thr Cys Ser Ser His Ile Leu Ala Val Ala Val Phe Phe 195 200 205 Gly Ser Ala Ala Phe Met Tyr Leu Gln Pro Ser Ser Val Ser Ser Met 215 220 Asp Gln Arg Lys Val Ser Ser Val Phe Tyr Thr Thr Ile Val Pro Met

```
230
                                        235
Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Leu Ala
                                   250
              245
Val Lys Lys Ile Leu His Gln Thr Ala Cys
            260
<210> 1110
<211> 318
<212> PRT
<213> Unknown (H38g26 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(318)
<223> Xaa = Any Amino Acid
<400> 1110
Met Gly Asn Ser Asn Gln Ser Phe Met Thr Glu Phe Val Leu Leu Gly
                5
                                    10
Leu Ser Gly Tyr Pro Glu Leu Glu Ala Ile Tyr Phe Val Leu Val Leu
           20
                                25
Cys Met Tyr Leu Val Ile Leu Leu Gly Asn Gly Val Ile Ile Val
                            40
Ser Val Tyr Asp Thr His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                        55
                                            60
Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Ser Ser Ser Ile Pro Leu
                   70
                                       75
Phe Leu Ser Ser Phe Leu Thr Ser Lys Lys Thr Ile Ser Phe Ser Gly
                85
                                    90
Cys Gly Val Gln Met Phe Leu Ser Phe Ala Met Gly Ala Thr Glu Cys
                                105
Val Leu Leu Ser Met Met Ala Phe Asp Cys Tyr Val Ala Ile Cys Asn
                            120
                                                125
Pro Leu Xaa Tyr Pro Ile Ile Met Ser Lys Ala Ser Tyr Met Ser Met
                       135
                                           140
Ala Ala Gly Ser Trp Ile Gly Gly Gly Ile Asn Ser Val Leu Gln Thr
                   150
                                       155
Ser Leu Ala Met Arg Leu Pro Phe Cys Gly Asp Asn Val Ile Asn His
               165
                                   170
Phe Thr Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asn Ile
           180
                               185
                                                    190
Ser Ile Asn Ile Ile Ser Met Val Val Ala Ser Met Ile Phe Leu Val
                           200
                                                205
Gly Pro Val Leu Phe Ile Phe Val Thr Tyr Val Phe Ile Leu Ser Thr
                       215
                                            220
Ile Leu Arg Ile Pro Ser Ala Glu Gly Arg His Lys Ala Ser Ser Thr
                   230
                                       235
Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Arg Thr Ile Leu
               245
                                    250
Phe Met Tyr Ala Lys Pro Lys Ala Lys Asp Ser Ser Gly Ala Asp Lys
           260
                               265
Glu Gln Val Thr Asp Lys Ile Ile Ser Leu Phe Tyr Gly Val Val Thr
                           280
                                               285
Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
                       295
                                           300
Ala Ala Val Lys Ser Ile Leu Xaa Gln Lys Cys Phe Leu Glu
                   310
                                      315
```

<210> 1111

```
<211> 329
<212> PRT
<213> Unknown (H38g27 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(329)
<223> Xaa = Any Amino Acid
<400> 1111
Lys Ser Met Lys Lys Met Asn Asn Val Ile Glu Phe Ile Leu Leu Gly
                                    10
Leu Thr His Asn Pro Glu Leu Gln Lys Phe Leu Phe Val Met Phe Leu
           20
                                25
Ile Thr Tyr Leu Ile Thr Leu Ala Gly Asn Leu Phe Ile Ser Val Ile
     35
                            40
                                                45
Ile Phe Ile Ser Pro Ala Leu Gly Ser Pro Met Tyr Ser Phe Pro Ser
                       55
                                            60
Tyr Leu Phe Ile Ile Asp Ile Phe Cys Ser Ser Ser Ile Ala Pro Lys
                   70
                                       75
Met Asn Phe Asp Leu Ile Ser Glu Lys Asn Thr Ile Ser Phe Asn Gly
               85
                                   90
Cys Met Thr Gln Leu Phe Thr Glu His Phe Phe Thr Glu His Phe Phe
           100
                               105
Glu Ala Ala Glu Ile Ile Leu Leu Ser Val Met Ala Tyr Asp His Tyr
                           120
        115
                                               125
Val Ala Ile Arg Lys Pro Leu His Tyr Ala Thr Ile Met Ser Gln Pro
                        135
                                            140
Met Cys Gly Phe Leu Met Val Val Ala Gly Ile Leu Gly Phe Val His
                    150
                                        155
Gly Gly Ile Gln Thr Leu Phe Ile Ala Gln Leu Pro Phe Cys Gly Pro
                165
                                   170
Asn Val Ile Asn His Phe Met Cys Asp Leu Val Pro Leu Leu Glu Leu
                                185
Ala Cys Thr Asp Thr His Thr Leu Gly Pro Leu Ile Ala Ala Asn Ser
                            200
Gly Ser Leu Cys Phe Leu Ile Phe Ser Met Leu Val Ala Ser Tyr Val
                       215
                                           220
Ile Ile Leu Cys Phe Leu Arg Thr His Ser Ser Glu Gly Arg Arg Lys
                   230
                                       235
Ala Leu Ser Ser Cys Ala Ser His Ile Phe Ile Val Ile Leu Phe Phe
                245
                                   250
Val Pro Phe Ser Tyr Leu Tyr Leu Arg Pro Ile His Ser Phe Pro Thr
           260
                                265
                                                   270
Asp Lys Ala Val Thr Val Phe Cys Thr Leu Phe Thr Pro Met Leu Asn
       275
                           280
                                                285
Pro Leu Ile Tyr Thr Leu Lys Asn Lys Glu Val Lys Asn Val Ile Lys
                       295
                                         300
Lys Leu Trp Lys Gln Ile Met Thr Thr Asp Asp Lys Xaa Val Leu Xaa
                   310
                                        315
His Lys His Leu Gly Lys Asn Ile Trp
                325
<210> 1112
<211> 318
<212> PRT
<213> Unknown (H38g28 protein)
```

<220>

<223> Synthetic construct

```
<400> 1112
Met Glu Trp Glu Asn His Thr Ile Leu Val Glu Phe Phe Leu Lys Gly
                                    10
Leu Ser Gly His Pro Arg Leu Glu Leu Leu Phe Phe Val Leu Ile Phe
                                25
Ile Met Tyr Val Val Ile Leu Leu Gly Asn Gly Thr Leu Ile Leu Ile
                            40
                                                 45
Ser Ile Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Gly
                        55
                                            60
Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Thr Ser Ile Pro Ser
                    70
                                        75
Thr Leu Val Ser Phe Leu Ser Glu Arg Lys Thr Ile Ser Leu Ser Gly
                85
                                    90
Cys Ala Val Gln Met Phe Leu Gly Leu Ala Met Gly Thr Thr Glu Cys
            100
                                105
Val Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
                            120
                                                125
Pro Leu Arg Tyr Pro Ile Ile Met Ser Lys Asp Ala Tyr Val Pro Met
                        135
                                            140
Ala Ala Gly Ser Trp Ile Ile Gly Ala Val Asn Ser Ala Val Gln Ser
                    150
                                        155
Val Phe Val Val Gln Leu Pro Phe Cys Arg Asn Asn Ile Ile Asn His
                165
                                    170
Phe Thr Cys Glu Ile Leu Ala Val Met Lys Leu Ala Cys Ala Asp Ile
                                185
Ser Asp Asn Glu Phe Ile Met Leu Val Ala Thr Thr Leu Phe Ile Leu
                            200
Thr Pro Leu Leu Ile Ile Val Ser Tyr Thr Leu Ile Ile Val Ser
                        215
                                            220
Ile Phe Lys Ile Ser Ser Ser Glu Gly Arg Ser Lys Ala Ser Ser Thr
                    230
                                        235
Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Leu
                                    250
Phe Met Tyr Met Lys Pro Lys Ser Lys Glu Thr Leu Asn Ser Asp Asp
            260
                                265
                                                    270
Leu Asp Ala Thr Asp Lys Ile Ile Ser Met Phe Tyr Gly Val Met Thr
        275
                            280
                                                285
Pro Met Met Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
                        295
                                            300
Glu Ala Val Lys His Leu Leu Asn Arg Arg Phe Phe Ser Lys
<210> 1113
<211> 264
<212> PRT
<213> Unknown (H38g29 protein)
<220>
<223> Synthetic construct
<400> 1113
Met Val Asp Asn Leu Ile Ile Val Val Thr Ile Thr Thr Ser Pro Ala
                                    10
Leu Asp Ser Pro Val Tyr Phe Phe Leu Ser Phe Phe Ser Phe Ile Asp
           20
Gly Cys Ser Ser Ser Thr Met Ala Pro Lys Met Ile Phe Asp Leu Leu
                            40
Thr Glu Lys Lys Thr Ile Ser Phe Ser Gly Cys Met Thr Gln Leu Phe
```

Val Glu His Phe Phe Gly Gly Val Glu Ile Ile Leu Leu Val Val Met 70 75 Ala Tyr Asp Cys Tyr Val Ala Ile Cys Lys Pro Leu Tyr Tyr Leu Ile 85 90 Thr Met Asn Arg Gln Val Cys Gly Leu Leu Val Ala Met Ala Trp Val 105 Gly Gly Phe Leu His Ala Leu Ile Gln Met Leu Leu Ile Val Trp Leu 115 120 125 Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Ile Cys Asp Leu Phe 135 140 Pro Leu Leu Lys Leu Ser Cys Thr Asp Thr His Val Phe Gly Leu Phe 150 155 Val Ala Ala Asn Ser Gly Leu Met Cys Met Leu Ile Phe Ser Ile Leu 170 165 Ile Thr Ser Tyr Val Leu Ile Leu Cys Ser Gln Arg Lys Ala Leu Ser 180 185 190 Thr Cys Ala Phe His Ile Thr Val Val Leu Phe Phe Val Pro Cys 200 205 Ile Leu Val Tyr Leu Arg Pro Met Ile Thr Phe Pro Ile Asp Lys Ala 215 220 Val Ser Val Phe Tyr Thr Val Val Thr Pro Met Leu Asn Pro Leu Ile 230 235 Tyr Thr Leu Arg Asn Thr Glu Val Lys Asn Ala Met Lys Gln Leu Trp 245 250 Ser Gln Ile Ile Trp Gly Asn Asn

<210> 1114

<211> 312

<212> PRT

<213> Unknown (H38g30 protein)

<220>

<223> Synthetic construct

<400> 1114

Met Trp Pro Asn Ile Thr Ala Ala Pro Phe Leu Leu Thr Gly Phe Pro 10 Gly Leu Glu Ala Ala His His Trp Ile Ser Ile Pro Phe Phe Ala Val 25 Tyr Val Cys Ile Leu Leu Gly Asn Gly Met Leu Leu Tyr Leu Ile Lys 40 45 His Asp His Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Thr Met Leu 55 60 Ala Gly Thr Asp Leu Met Val Thr Leu Thr Thr Met Pro Thr Val Met 70 75 Gly Ile Leu Trp Val Asn His Arg Glu Ile Ser Ser Val Gly Cys Phe 90 Leu Gln Ala Tyr Phe Ile His Ser Leu Ser Val Val Glu Ser Gly Ser 100 105 Leu Leu Ala Met Ala Tyr Asp Arg Phe Ile Ala Ile Arg Asn Pro Leu 125 115 120 Arg Tyr Ala Ser Ile Phe Thr Asn Thr Arg Val Ile Ala Leu Gly Val 135 140 Gly Val Phe Leu Arg Gly Phe Val Ser Ile Leu Pro Val Ile Leu Arg 150 155 Leu Phe Ser Phe Ser Tyr Cys Lys Ser His Val Ile Thr Arg Ala Phe 165 170 Cys Leu His Gln Glu Ile Met Arg Leu Ala Cys Ala Asp Ile Thr Phe 185 Asn Arg Leu Tyr Pro Val Ile Leu Ile Ser Leu Thr Ile Phe Leu Asp

```
200
                                                 205
 Ser Leu Ile Ile Leu Phe Ser Tyr Ile Leu Ile Leu Asn Thr Val Ile
                         215
                                             220
 Gly Ile Ala Ser Gly Glu Glu Arg Ala Lys Ala Leu Asn Thr Cys Ile
                     230
                                         235
 Ser His Ile Ser Cys Val Leu Ile Phe Tyr Val Thr Val Met Gly Leu
                 245
                                     250
 Thr Phe Ile Tyr Arg Phe Gly Lys Asn Val Pro Glu Val Val His Ile
             260
                                 265
 Ile Met Ser Tyr Ile Tyr Phe Leu Phe Pro Pro Leu Met Asn Pro Val
                             280
                                                 285
 Ile Tyr Ser Ile Lys Thr Lys Gln Ile Gln Tyr Gly Ile Ile Arg Leu
                        295
                                             300
 Leu Ser Lys His Arg Phe Ser Arg
<210> 1115
<211> 285
<212> PRT
<213> Unknown (H38g31 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(285)
<223> Xaa = Any Amino Acid
<400> 1115
Asp Thr Glu Pro Gln Asn Leu Thr Ala Val Ser Glu Phe Leu Leu Leu
                                    10
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Ile Leu Ala Gly Leu Phe
                                25
Leu Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
                            40
Ala Ile Gly Ser Asp Ser His Leu Asp Thr Pro Met Tyr Phe Phe Leu
                                            60
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Ala Thr Val Pro
                    70
                                        75
Lys Met Ile Glu Glu Met Gln Ser His Ser Arg Val Ile Tyr His Gly
                                    90
Asp Cys Leu Thr Gln Met Ser Phe Phe Val Leu Phe Ala Cys Lys Asp
            100
                                105
Asp Met Ile Leu Thr Val Met Ala Tyr Asp Trp Phe Val Ala Ile Cys
                            120
His Pro Leu Asn Tyr Pro Gly Ile Met Asn Pro His Leu Cys Val Leu
                        135
                                            140
Leu Val Leu Val Pro Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His
                    150
                                        155
Asn Leu Ile Val Leu Gln Phe Ile Cys Phe Lys Asn Val Glu Ile Ser
                165
                                    170
Asn Phe Phe Cys Asp Pro Phe Gln Arg Leu Asn Leu Ala Cys Ser Asp
           180
                                185
Ser Asp Ile Asn Asn Ile Tyr Ile Tyr Leu Asp Ser Thr Ile Phe Gly
                            200
                                                205
Phe Leu Arg Ile Ser Gly Ile Leu Leu Cys Tyr Tyr Thr Val Val Phe
                        215
                                            220
Pro Ile Leu Arg Ile Pro Ser Ser Asp Gly Asn Tyr Lys Ala Phe Ser
                   230
                                        235
Thr Xaa Gly Ser Arg Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly
                245
                                    250
```

```
Ile Gly Val Tyr Leu Thr Ser Ala Val Ser Ser Pro Arg Asn Asp
                               265
           260
Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro
                           280
<210> 1116
<211> 317
<212> PRT
<213> Unknown (H38g32 protein)
<220>
<223> Synthetic construct
<400> 1116
Met Gly Glu Ile Asn Gln Thr Leu Val Ser Glu Phe Leu Leu Gly
                                   10
Leu Ser Gly Tyr Pro Lys Ile Glu Ile Val Tyr Phe Ala Leu Ile Leu
                               25
           20
Val Met Tyr Leu Val Ile Leu Ile Gly Asn Gly Val Leu Ile Ile Ala
       35
                           40
Ser Ile Phe Asp Ser His Phe His Thr Pro Met Tyr Phe Phe Leu Gly
                                        60
Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Ser Ser Ser Val Pro Ser
                                 75
                  70
Thr Leu Val Ser Leu Ile Ser Lys Lys Arg Asn Ile Ser Phe Ser Gly
               85
                                   90
Cys Ala Val Gln Met Phe Phe Gly Phe Ala Met Gly Ser Thr Glu Cys
                               105
Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn
                                               125
                           120
Pro Leu Arg Tyr Pro Ile Ile Leu Ser Lys Val Ala Tyr Val Leu Met
                       135
Ala Ser Val Ser Trp Leu Ser Gly Gly Ile Asn Ser Ala Val Gln Thr
                                      155
                  150
Leu Leu Ala Met Arg Leu Pro Phe Cys Gly Asn Asn Ile Ile Asn His
                                   170
               165
Phe Ala Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp Ile
                                                   190
                               185
           180
Ser Leu Asn Ile Ile Thr Met Val Ile Ser Asn Met Ala Phe Leu Val
                                               205
                           200
       195
Leu Pro Leu Met Val Ile Phe Phe Ser Tyr Met Phe Ile Leu Tyr Thr
                                          220
                      215
Ile Leu Gln Met Asn Ser Ala Thr Gly Arg Arg Lys Ala Phe Ser Thr
                                      235
                  230
Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Phe
                                   250
              245
Phe Met Tyr Ala Lys Pro Lys Ser Gln Asp Leu Ile Gly Glu Glu Lys
                               265
           260
Leu Gln Ala Leu Asp Lys Leu Ile Ser Leu Phe Tyr Gly Val Val Thr
       275
                                               285
                           280
Pro Met Leu Asn Pro Ile Leu Tyr Ser Leu Arg Asn Lys Asp Val Lys
                       295
                                           300
Ala Ala Val Lys Tyr Leu Leu Asn Lys Lys Pro Ile His
                                       315
305
                   310
<210> 1117
<211> 309
<212> PRT
<213> Unknown (H38g33 protein)
<220>
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## <223> Synthetic construct

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<400> 1117
Met Gly Ala Lys Asn Asn Val Thr Glu Phe Val Leu Phe Gly Leu Phe
Glu Ser Arg Glu Met Gln His Thr Cys Phe Val Val Phe Phe Leu Phe
                               25
His Val Leu Thr Val Leu Gly Asn Leu Leu Val Ile Ile Thr Ile Asn
                            40
Ala Arg Lys Thr Leu Lys Ser Pro Met Tyr Phe Phe Leu Ser Gln Leu
                       55
                                           60
Ser Phe Ala Asp Ile Cys Tyr Pro Ser Thr Thr Ile Pro Lys Met Ile
                                       75
                   70
Ala Asp Thr Phe Val Glu His Lys Ile Ile Ser Phe Asn Gly Cys Met
                                                        95
               85
                                    90
Thr Gln Leu Phe Ser Ala His Phe Phe Gly Gly Thr Glu Ile Phe Leu
                               105
           100
Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu
       115
                           120
                                                125
His Tyr Thr Ala Ile Met Asp Cys Arg Lys Cys Gly Leu Leu Ala Gly
                        135
                                           140
Ala Ser Trp Leu Ala Gly Phe Leu His Ser Ile Leu Gln Thr Leu Leu
                   150
                                       155
Thr Val Gln Leu Pro Phe Cys Gly Pro Asn Glu Ile Asp Asn Phe Phe
                                    170
Cys Asp Val His Pro Leu Leu Lys Leu Ala Cys Ala Asp Thr Tyr Met
                                                    190
           180
                                185
Val Gly Leu Ile Val Val Ala Asn Ser Gly Met Ile Ser Leu Ala Ser
                                                205
                            200
Phe Phe Ile Leu Ile Ile Ser Tyr Val Ile Ile Leu Leu Asn Leu Arg
                       215
                                            220
Ser Gln Ser Ser Glu Asp Arg Arg Lys Ala Val Ser Thr Cys Gly Ser
                                       235
                   230
His Val Ile Thr Val Leu Leu Val Leu Met Pro Pro Met Phe Met Tyr
               245
                                    250
Ile Arg Pro Ser Thr Thr Leu Ala Ala Asp Lys Leu Ile Ile Leu Phe
           260
                               265
                                                    270
Asn Ile Val Met Pro Pro Leu Leu Asn Pro Leu Ile Tyr Thr Leu Arg
                           280
                                                285
Asn Asn Asp Val Lys Asn Ala Met Arg Lys Leu Phe Arg Val Lys Arg
                      295
Ser Leu Gly Glu Lys
<210> 1118
<211> 329
<212> PRT
<213> Unknown (H38g34 protein)
```

- <223> Synthetic construct
- <221> VARIANT
- <222> (1)...(329)
- <223> Xaa = Any Amino Acid
- <400> 1118
- Ala Thr Cys His Leu Xaa Thr His Asn Ala Ala Pro Phe Leu Leu Pro 10 Gly Phe Ser Val Leu Glu Ala Thr Tyr His Ser Ile Ser Ile Pro Phe 25

```
Phe Ala Val Tyr Val Cys Val Leu Leu Gly Asn Gly Lys Leu Leu Tyr
                            40
Leu Ile Lys His Asp His Ser Leu His Glu Pro Met Tyr Cys Phe Leu
Ala Thr Leu Arg Gln Asp Leu Met Val Lys Leu Thr Met Met Pro Thr
                    70
Val Met Gly Val Leu Trp Met Asn His Lys Glu Val Ile His Gly Ala
                                    90
Cys Phe Leu Gln Val Tyr Ile Ile His Ser His Tyr Pro Leu Ala Glu
           100
                                105
                                                     110
Ser Gly Ile Leu Leu Ser Met Ala Tyr Asp Arg Phe Ile Ile Ile His
                            120
                                                125
Met Leu Leu Arg Tyr Asn Ser Ile Ser Thr Lys Ser Trp Val Lys Ile
                        135
                                            140
Glu Leu Trp Leu Phe Met Arg Asp Phe Leu Ser Leu Val Pro Pro Ile
                   150
                                        155
Leu Pro Leu His Cys Phe Pro Tyr Cys His Ser His Val Leu Phe His
               165
                                    170
Thr Phe Phe Leu His Gln Asp Val Leu Lys Leu Ala Cys Ala Asp Ile
           180
                                185
Thr Phe Asn His Leu Tyr Pro Ala Ile Leu Val Ala Leu Ile Phe Phe
        195
                            200
                                                205
Leu Asp Ala Leu Ile Ile Val Phe Ser Tyr Ile Leu Ile Leu Lys Thr
                        215
                                            220
Val Ile Gly Ile Ala Ser Arg Lys Glu Gln Ala Lys Ala Leu Asn Met
                    230
                                        235
Cys Val Ser His Ile Ser Cys Val Leu Val Phe His Ile Thr Val Ile
                245
                                    250
Ser Glu Thr Phe Ile His Arg Phe Gly Lys His Ala Pro His Val Val
                                265
                                                    270
His Ile Thr Val Ser Tyr Asp Ser Phe Leu Phe Pro Pro Phe Met Asn
                            280
                                                285
Pro Ile Ile Tyr Ser Ile Lys Thr Lys Gln Ile Gln Arg Ser Ile Val
                        295
                                            300
Arg Leu Phe Ser Gly His Arg Met Ala Xaa Ala Leu Phe Ser Glu Phe
                   310
                                        315
Cys Asp Leu His Asp Phe Trp Ala Phe
```

<210> 1119

<211> 296

<212> PRT

<213> Unknown (H38g35 protein)

<220>

<223> Synthetic construct

<400> 1119

Leu Leu Leu Val Leu Leu Leu Pro Thr Phe Leu Leu Ser Leu Met 5 10 Gly Asn Met Leu Ile Ile Ser Thr Val Leu Ser Cys Ser Arg Leu His 25 Thr Pro Met Tyr Phe Phe Leu Cys Asn Leu Ser Ile Leu Asp Ile Leu 40 45 Phe Thr Ser Val Ile Ser Pro Lys Val Leu Ala Asn Leu Gly Ser Arg 60 Asp Lys Thr Ile Ser Phe Ala Gly Cys Ile Thr Gln Cys Tyr Phe Tyr 70 75 Phe Phe Leu Gly Thr Val Glu Phe Leu Leu Leu Thr Val Met Ser Tyr 90 Asp Cys Tyr Ala Ala Ile Cys Cys Pro Leu Arg Tyr Thr Thr Ile Met

```
105
Arg Pro Tyr Val Cys Ile Gly Thr Val Val Phe Ser Trp Val Gly Gly
                           120
Phe Leu Ser Val Leu Phe Pro Thr Ile Leu Ile Ser Gln Leu Pro Phe
                                            140
                       135
Cys Gly Ser Asn Ile Ile Asn His Phe Phe Cys Asp Ser Gly Pro Leu
                   150
                                        155
Leu Ala Leu Ala Cys Ala Asp Thr Thr Ala Ile Glu Leu Met Asp Phe
               165
                                   170
Met Leu Ser Ser Met Val Ile Leu Cys Cys Ile Val Leu Val Ala Tyr
                                185
Ser Tyr Thr Tyr Ile Ile Leu Thr Ile Met Arg Ile Pro Ser Ala Ser
                            200
Gly Arg Lys Lys Ala Phe Asn Thr Cys Ala Ser His Leu Thr Ile Val
                       215
                                            220
Ile Ile Ser Ser Gly Ile Thr Val Phe Ile Tyr Val Thr Pro Ser Gln
                    230
                                        235
Lys Glu Tyr Leu Glu Ile Asn Lys Ile Pro Ser Val Leu Ser Ser Leu
               245
                                    250
Val Thr Pro Phe Leu Asn Pro Phe Ile Tyr Thr Leu Arg Asn Asp Thr
                               265
Val Gln Gly Val Leu Arg Asp Val Trp Val Arg Val Arg Gly Val Phe
       275
                           280
Glu Lys Arg Met Arg Ala Val Leu
    290
<210> 1120
<211> 310
<212> PRT
<213> Unknown (H38g36 protein)
<220>
<223> Synthetic construct
<400> 1120
Met Trp Tyr Asn Asn Ser Ala Gly Pro Phe Leu Leu Thr Gly Phe Leu
                                    10
Gly Ser Glu Ala Val His Tyr Arg Ile Ser Met Ser Phe Phe Val Ile
                                25
Tyr Phe Ser Val Leu Phe Gly Asn Gly Thr Leu Leu Val Leu Ile Trp
                           40
Asn Asp His Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ala Met Leu
                       55
                                            60
Ala Asp Thr Asp Leu Gly Met Thr Phe Thr Thr Met Pro Thr Val Leu
                    70
                                        75
Gly Val Leu Leu Asp Gln Arg Glu Ile Ala His Ala Ala Cys Phe
                                    90
Thr Gln Ser Phe Ile His Ser Leu Ala Ile Val Glu Ser Gly Ile Leu
                               105
Leu Val Leu Ala Tyr Asp Cys Phe Ile Ala Ile Arg Thr Pro Leu Arg
                           120
Tyr Asn Cys Ile Leu Thr Asn Ser Arg Val Met Asn Ile Gly Leu Gly
                       135
                                            140
Val Leu Met Arg Gly Phe Met Ser Ile Leu Pro Ile Ile Leu Ser Leu
                    150
                                        155
Tyr Cys Tyr Pro Tyr Cys Gly Ser Arg Ala Leu Leu His Thr Phe Cys
                                   170
               165
Leu His Gln Asp Val Ile Lys Leu Ala Cys Ala Asp Ile Thr Phe Asn
                               185
His Ile Tyr Pro Ile Ile Gln Thr Ser Leu Thr Val Phe Leu Asp Ala
                           200
```

```
Leu Ile Ile Ile Phe Ser Tyr Ile Leu Ile Leu Lys Thr Val Met Gly
                       215
                                            220
Ile Ala Ser Gly Gln Glu Glu Ala Lys Ser Leu Asn Thr Cys Val Ser
                                        235
                   230
His Ile Ser Cys Val Leu Val Phe His Ile Thr Val Met Gly Leu Ser
               245
                                    250
Phe Ile His Arg Phe Gly Lys His Ala Pro His Val Val Pro Ile Thr
                                265
Met Ser Tyr Val His Phe Leu Phe Pro Pro Phe Val Asn Pro Ile Ile
                            280
Tyr Ser Ile Lys Thr Lys Gln Ile Gln Arg Ser Ile Ile Arg Leu Phe
                    295
                                            300
Ser Gly Gln Ser Arg Ala
<210> 1121
<211> 332
<212> PRT
<213> Unknown (H38g37 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(332)
<223> Xaa = Any Amino Acid
<400> 1121
His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu
                5
                                    10
Gly Leu Pro Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser
                                25
Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ile
                            40
Ile Leu Ala Val Ser Ser Val Ser Pro Leu His Thr Pro Met Tyr Phe
                       55
                                            60
Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr
                                       75
                   70
Val Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Ala Ile Ser
               85
                                    90
His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu Phe Leu Phe Ala Cys
                                105
            100
Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala
        115
                           120
                                                125
Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Phe Cys
                       135
                                           140
Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
                                       155
                   150
Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Phe Lys Asn Val Glu
                                   170
               165
Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys
           180
                               185
                                                   190
Ser Asp Gly Val Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met
       195
                           200
                                               205
Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Trp Ser Tyr Tyr Lys Ile
                       215
                                           220
Val Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala
                   230
                                       235
Phe Ser Thr Cys Gly Ser His Gln Ala Val Val Cys Xaa Phe Tyr Arg
               245
                                   250
Thr Gly Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg
```

```
265
 Asn Gly Val Val Ala Ser Leu Ile Tyr Ala Val Val Thr Pro Met Leu
                           280
 Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu
                       295
                                           300
 Arg Arg Leu Leu Ser Arg Thr Val Glu Ser His Asp Leu Phe His Pro
         310
                                       315
 Phe Ser Trp Trp Val Arg Lys Gly Asn His Ile Lys
                325
 <210> 1122
 <211> 310
 <212> PRT
 <213> Unknown (H38g38 protein)
<220>
<223> Synthetic construct
<400> 1122
Met Gly Asp Asn Ile Thr Ser Ile Arg Glu Phe Leu Leu Gly Phe
                                    10
Pro Val Gly Pro Arg Ile Gln Met Leu Phe Gly Leu Phe Ser Leu
                                25
Phe Tyr Val Phe Thr Leu Leu Gly Asn Gly Thr Ile Leu Gly Leu Ile
                            40
Ser Leu Asp Ser Arg Leu His Ala Pro Met Tyr Phe Phe Leu Ser His
                       55
                                            60
Leu Ala Val Val Asp Ile Ala Tyr Ala Cys Asn Thr Val Pro Arg Met
                    70
                                        75
Leu Val Asn Leu Leu His Pro Ala Lys Pro Ile Ser Phe Ala Gly Arg
                                    90
Met Met Gln Thr Phe Leu Phe Ser Thr Phe Ala Val Thr Glu Cys Leu
            100
                                105
Leu Leu Val Val Met Ser Tyr Asp Leu Tyr Val Ala Ile Cys His Pro
        115
                            120
                                               125
Leu Arg Tyr Leu Ala Ile Met Thr Trp Arg Val Cys Ile Thr Leu Ala
                        135
                                           140
Val Thr Ser Trp Thr Thr Gly Val Leu Leu Ser Leu Ile His Leu Val
                    150
                                       155
Leu Leu Pro Leu Pro Phe Cys Arg Pro Gln Lys Ile Tyr His Phe
               165
                                   170
Phe Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp Thr His
           180
                               185
                                                   190
Ile Asn Glu Asn Met Val Leu Ala Gly Ala Ile Ser Gly Leu Val Gly
        195
                           200
                                               205
Pro Leu Ser Thr Ile Val Val Ser Tyr Met Cys Ile Leu Cys Ala Ile
                       215
                                           220
Leu Gln Ile Gln Ser Arg Glu Val Gln Arg Lys Ala Phe Arg Thr Cys
                    230
                                       235
Phe Ser His Leu Cys Val Ile Gly Leu Val Tyr Gly Thr Ala Ile Ile
               245
                                   250
Met Tyr Val Gly Pro Arg Tyr Gly Asn Pro Lys Glu Gln Lys Lys Tyr
           260
                               265
                                                   270
Leu Leu Phe His Ser Leu Phe Asn Pro Met Leu Asn Pro Leu Ile
                           280
                                               285
Cys Ser Leu Arg Asn Ser Glu Val Lys Asn Thr Leu Lys Arg Val Leu
                       295
Gly Val Glu Arg Ala Leu
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<210> 1123

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<211> 323
 <212> PRT
 <213> Unknown (H38g39 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(323)
<223> Xaa = Any Amino Acid
<400> 1123
His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu
                                    10
Gly Ile Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Thr
                                25
Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ile Ile Leu
                            40
Ala Val Ser Ser Asp Ser His Leu His Thr Ser Met Tyr Phe Val Leu
                       55
Ser Asn Leu Arg Trp Val Asp Ile Gly Phe Thr Ser Ala Thr Val Pro
                   70
                                       75
Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr Ala
                                   90
Gly Cys Leu Thr Gln Met Ser Phe Leu Val Phe Phe Ala Cys Ile Glu
           100
                    105
                                                  110
Asp Met Leu Leu Thr Val Met Ser Tyr Asp Gln Phe Leu Ala Ile Cys
    115
                            120
                                              125
His Pro Leu His Tyr Pro Val Ile Val Asn Pro His Phe Cys Val Phe
                       135
Leu Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His
Arg Trp Ile Val Leu Gln Phe Thr Phe Phe Lys Asn Val Glu Ile Ser
                165
                                   170
Asn Phe Val Cys Glu Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp
            180
                               185
                                                   190
Ser Val Ile Asn Ile Ile Phe Ile Tyr Leu Asp Ser Thr Met Phe Gly
                            200
Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro
                       215
                                           220
Ser Ile Leu Arg Met Ser Leu Ser Asp Val Lys Tyr Lys Ala Phe Ser
                   230
                                       235
Thr Cys Gly Ser His Leu Ala Val Phe Cys Leu Phe Tyr Gly Ala Gly
               245
                                   250
Ile Gly Val Tyr Leu Thr Ser Ala Val Ser Pro Pro Ser Gly Asn Gly
            260
                               265
Val Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro
                            280
                                               285
Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Pro Trp Arg
                      295
                                          300
Leu Arg Ser Thr Thr Val Glu Ser Pro Xaa Ser Leu Pro Ser Phe Phe
                  310
                                       315
Leu Cys Leu
<210> 1124
<211> 320
<212> PRT
<213> Unknown (H38g40 protein)
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471

<220>

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<223> Synthetic construct
<221> VARIANT
<222> (1)...(320)
<223> Xaa = Any Amino Acid
<400> 1124
His Thr Glu Pro Gln Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu
                5
                                    10
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Ile Leu Ala Gly Leu Ser
           20
                               25
Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ile Ile Leu
                            40
Ala Val Ser Ser Asp Pro His Leu His Thr Pro Met Cys Phe Phe Leu
                       55
                                            60
Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Leu Ala Thr Val Pro
                   70
                                       75
Lys Met Ile Val Asp Met Gln Ser His Thr Arg Val Ile Ser Tyr Glu
                                   90
                85
                                                       95
Gly Cys Leu Thr Arg Ile Ser Phe Leu Val Leu Phe Ala Cys Ile Glu
                               105
                                                   110
Asp Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala Ile Cys
                            120
                                               125
Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys Val Phe
                        135
Phe Leu Leu Val Tyr Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His
                    150
                                        155
Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu Ile Ser
                165
                                   170
Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys Ser Asp
                               185
                                                   190
Ser Val Ile Asn Ser Ile Phe Met Tyr Phe His Ser Thr Met Phe Gly
                           200
Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro
                       215
                                           220
Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser
                   230
                                       235
Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Tyr Gly Thr Gly
               245
                                   250
Ile Gly Val Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg Asn Gly
           260
                 265
                                                   270
Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu Asn Leu
                           280
                                               285
Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Arg Arg
                       295
                                           300
Leu Leu Ser Arg Thr Val Glu Ser His Asp Leu Phe His Pro Phe Ser
                   310
                                       315
<210> 1125
<211> 327
<212> PRT
<213> Unknown (H38g41 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(327)
<223> Xaa = Any Amino Acid
<400> 1125
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Ser Thr Asp Xaa Gln Ser Leu Thr Gly Val Ser Ile Phe Leu Leu Leu
                 5
                                    10
 Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Phe
            20
                                 25
 Leu Ser Met Cys Leu Val Lys Val Leu Gly Asn Leu Leu Ile Ile Leu
                            40
 Ala Ile Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
                        55
                                            60
 Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Met Val Pro
                    70
                                        75
 Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala
                                    90
Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
            100
                                105
Glu Asn Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile
        115
                            120
                                                125
Cys His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly
                        135
                                            140
Phe Leu Val Leu Ser Phe Phe Leu Ser Phe Ser Gln Leu His Asn
                   150
                                       155
Leu Ile Ala Leu Lys Met Thr Cys Phe Lys Asn Val Gly Ile Pro Asn
               165
                                   170
Phe Leu Cys Asp Pro Ser Gln Leu Pro His Leu Thr Cys Cys Asp Thr
            180
                               185
Phe Thr Asn His Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe Gly Phe
        195
                            200
                                                205
Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr His Val Ile Val Ser Ser
                        215
                                            220
Ile Leu Arg Val Ser Ser Ser Arg Gly Arg Cys Lys Ala Phe Ser His
225
                    230
                                        235
Leu Xaa Val Val Cys Xaa Tyr Tyr Gly Thr Gly Phe Gly Gly Tyr Leu
                245
                                    250
                                                        255
Ser Ser Asp Val Ser Ser Ser Leu Arg Lys Ala Ala Val Ala Ser Val
                                265
                                                    270
Met Tyr Met Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu
                            280
                                                285
Arg Asn Arg Asp Ile Lys Ser Val Val Gln Arg Pro His Gly Ser Thr
                        295
                                           300
Val Xaa Ser Gln Tyr Leu Leu Ile Cys Ser Ile Pro Phe Val Val Trp
                   310
                                  315
Val Lys Lys Gly Ser Lys Val
<210> 1126
<211> 313
<212> PRT
<213> Unknown (H38g42 protein)
<220>
<223> Synthetic construct
<400> 1126
Met Gly Asn Trp Ser Thr Val Thr Glu Ile Thr Leu Ile Ala Phe Pro
                5
                                   10
Ala Leu Leu Glu Ile Arg Ile Ser Leu Phe Val Val Leu Val Val Thr
           20
                               25
```

45

Tyr Thr Leu Thr Ala Thr Gly Asn Ile Thr Ile Ile Ser Leu Ile Trp 40

Ile Asp His Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu

Ser Phe Leu Asp Ile Leu Tyr Thr Thr Val Ile Thr Pro Lys Leu Leu

```
70
                                        75
Ala Cys Leu Leu Gly Glu Glu Lys Thr Ile Ser Phe Ala Gly Cys Met
                                   90
               85
Ile Gln Thr Tyr Phe Tyr Phe Phe Leu Gly Thr Val Glu Phe Ile Leu
                               105
            100
Leu Ala Val Met Ser Phe Asp Arg Tyr Met Ala Ile Cys Asp Pro Leu
                           120
       115
His Tyr Thr Val Ile Met Asn Ser Arg Ala Cys Leu Leu Leu Val Leu
                       135
                                           140
Gly Cys Trp Val Gly Ala Phe Leu Ser Val Leu Phe Pro Thr Ile Val
                   150
                                       155
Val Thr Arg Leu Pro Tyr Cys Arg Lys Glu Ile Asn His Phe Phe Cys
                                   170
Asp Ile Ala Pro Leu Ceu Gln Val Ala Cys Ile Asn Thr His Leu Ile
                               185
Glu Lys Ile Asn Phe Leu Leu Ser Ala Leu Val Ile Leu Ser Ser Leu
                           200
                                               205
Ala Phe Thr Thr Gly Ser Tyr Val Tyr Ile Ile Ser Thr Ile Leu Arg
                       215
                                           220
Ile Pro Ser Thr Gln Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala Ser
                   230
                                       235
His Ile Thr Val Val Ser Ile Ala His Gly Ser Asn Ile Phe Val Tyr
               245
                                   250
Val Arg Pro Asn Gln Asn Ser Ser Leu Asp Tyr Asp Lys Val Ala Ala
                               265
Val Leu Ile Thr Val Val Thr Pro Leu Leu Asn Pro Phe Ile Tyr Ser
                            280
Leu Arg Asn Glu Lys Val Gln Glu Val Leu Arg Glu Thr Val Asn Arg
                        295
Ile Met Thr Leu Ile Gln Arg Lys Thr
                   310
<210> 1127
<211> 247
<212> PRT
<213> Unknown (H38g43 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(247)
<223> Xaa = Any Amino Acid
<400> 1127
Met Gly Asn Ile Asn Ile Ser Leu Glu Asn Tyr Phe Ile Leu Leu Gly
                                    10
Leu Ser Asn Xaa Pro Pro Leu Glu Ile Val Ile Phe Val Val Leu Leu
Ile Phe Cys Phe Met Thr Leu Ile Gly Lys Leu Phe Ser Ile Ile Leu
                            40
Ser Tyr Leu Asp Ser His Pro His Thr Pro Arg Tyr Leu Phe Ser Phe
                       55
                                            60
Leu Asp Phe Cys Tyr Thr Ile Ser Ser Ile Phe Xaa Leu Gln Tyr Asn
                   70
                                       75
Leu Trp Gly Pro Gln Lys Asn Ile Ser Tyr Ala Ser Gly Met Ile Gln
               85
                                    90
Ile Tyr Phe Val Leu Thr Leu Gly Thr Met Asp Cys Ala Leu Leu Val
                               105
Val Met Ser Arg Thr Val Tyr Ala Ala Gly His Arg His Leu Pro Tyr
                           120
```

```
Thr Val Val Met Ala Val Ala Phe Trp Val Ser Ser Phe Thr Asn Ser
                      135
Ala Phe Asp Ser Phe Phe Thr Phe Trp Val Thr Leu Cys Gly His His
                  150
                                     155
Tyr Tyr Ala Tyr Ile Phe Ile Phe Thr Ser Leu Leu Val Xaa Arg Trp
                          170
              165
Phe Ile Asn Arg Lys Lys Gln Ser Val Phe Ser Leu Asn His Ala Ala
                             185
                                                190
          180
Leu Leu Thr Leu Ser Phe Pro Leu Xaa Asn Asp Cys Phe Gln Glu Ile
                          200
                                             205
Glu Lys Asn Met Leu Arg Lys His Ser Ile Gly Glu Cys Xaa Lys His
                                         220
                     215
Val Met Leu Val Gln Leu Asn Gln Val Ser Lys Thr Cys Ile Phe Met
                           235
                  230
Arg Pro Ile Leu Gly Asn Ser
               245
```

<210> 1128

<211> 316

<212> PRT

<213> Unknown (H38g44 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(316)

<223> Xaa = Any Amino Acid

<400> 1128

Asp Ile Gln Asn Gln Thr Thr Val Thr Glu Phe Thr Leu Thr Ala Phe 10 Pro Val Leu Gln Gln Leu Gln Ile Ser Leu Leu Ala Val Leu Trp Phe 25 Thr Tyr Met Leu Thr Leu Thr Gly Asn Val Ala Ile Ile Ser Leu Thr 40 Trp Ala Asn His Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Ser Asn 60 Trp Ser Ile Trp Asp Ile Phe Phe Thr Thr Ser Val Ile Pro Lys Leu 70 75 Leu Ala Cys Leu Leu Gln Asp Lys Lys Thr Ile Ser Leu Ala Gly Cys 90 85 Ile Thr Gln Thr Tyr Phe Leu Gly Phe Leu Gly Thr Val Glu Phe Ile 105 Leu Trp Ala Val Met Ser Phe Asp Cys Tyr Val Ala Ile Cys Asp Pro 125 120 Leu His Tyr Thr Ile Ile Met Asn Ser Arg Ala Cys Leu Leu Leu Val 135 140 Leu Gly Cys Trp Val Gly Ala Phe Leu Ser Val Leu Cys Pro Thr Ile 155 150 Val Val Ser Arg Leu Pro Phe Cys Tyr Lys Glu Ile Ser His Phe Phe 165 170 Cys Asp Ile Thr Pro Leu Leu His Val Ser Cys Ile Asp Thr His Phe 185 180 Ile Glu Met Ile Asn Phe Leu Leu Ser Ser Leu Ile Leu Leu Thr Ser 200 Leu Val Leu Thr Thr Val Ser Tyr Ile Tyr Ile Ile Ser Thr Ile Leu 215 220 His Ile Pro Ser Ala Gln Gly Arg Arg Lys Ala Phe Ser Thr Cys Ala 235 230 Ser His Ile Thr Val Ile Ser Ile Ala Tyr Ile Ser Asn Ile Phe Arg

```
245
                                    250
Tyr Val Arg Pro Ser Gln Ser His Ser Met Gly Phe Asp Lys Val Thr
                               265
            260
Ala Val Pro Thr Met Val Thr Pro Leu Leu Asn Pro Phe Thr Tyr Ser
                            280
Leu Arg Asn Glu Lys Val Lys Ala Val Leu Lys Glu Ala Val Ser Lys
                       295
Ile Met Ser Ser Trp His Arg Arg Thr Xaa Asn Phe
<210> 1129
<211> 310
<212> PRT
<213> Unknown (H38g45 protein)
<220>
<223> Synthetic construct
<400> 1129
Met Glu Pro Gln Asn Thr Thr Gln Val Ser Met Phe Val Leu Leu Gly
 1
                                    10
Phe Ser Gln Thr Gln Glu Leu Gln Lys Phe Leu Phe Leu Phe Leu
            20
                                25
Leu Val Tyr Val Thr Thr Ile Val Gly Asn Leu Leu Ile Met Val Thr
                            40
Val Thr Phe Asp Cys Arg Leu His Thr Pro Met Tyr Phe Leu Leu Arg
                        55
                                            60
Asn Leu Ala Leu Ile Asp Leu Cys Tyr Ser Thr Val Thr Ser Pro Lys
                                        75
                    70
Met Leu Val Asp Phe Leu His Glu Thr Lys Thr Ile Ser Tyr Gln Gly
                85
                                    90
Cys Met Ala Gln Ile Phe Phe His Leu Leu Gly Gly Gly Thr Val
            100
                                105
Phe Phe Leu Ser Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Ser Gln
                            120
Pro Leu Arg Tyr Val Thr Ile Met Asn Thr Gln Leu Cys Val Gly Leu
                        135
                                            140
Val Val Ala Ala Trp Val Gly Gly Phe Val His Ser Ile Val Gln Leu
                    150
                                       155
Ala Leu Ile Leu Pro Leu Pro Phe Cys Asp Pro Asn Ile Ile Asp Asn
               165
                                   170
Phe Tyr Cys Asp Val Pro Gln Val Leu Arg Leu Ala Cys Thr Asp Thr
            180
                                                    190
                               185
Ser Leu Leu Glu Phe Leu Met Ile Phe Asn Ser Gly Leu Leu Val Ile
                            200
Ile Trp Phe Leu Leu Leu Ile Ser Tyr Thr -Val Ile Leu Val Met
                                            220
                       215
Leu Arg Ser His Ser Gly Lys Ala Arg Arg Lys Ala Ala Ser Thr Cys
                    230
                                        235
Thr Thr His Ile Ile Val Val Ser Met Ile Phe Ile Pro Cys Ile Tyr
               245
                                   250
Ile Tyr Thr Trp Pro Phe Thr Pro Phe Leu Met Asp Lys Ala Val Ser
           260
                               265
Ile Ser Tyr Thr Val Met Thr Pro Met Leu Asn Pro Met Ile Tyr Thr
       275
                                               285
                           280
Leu Arg Asn Gln Asp Met Lys Ala Ala Met Arg Arg Leu Gly Lys Cys
                       295
Leu Val Ile Cys Arg Glu
```

<210> 1130

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<211> 311
 <212> PRT
 <213> Unknown (H38g46 protein)
<223> Synthetic construct
<221> VARIANT
 <222> (1)...(311)
 <223> Xaa = Any Amino Acid
<400> 1130
Asp Gln Glu Asn Gln Thr Ser Glu Val Thr Phe Ile Leu Leu Gly Phe
                                   10
Ser Glu Tyr Pro Asp Leu Gln Thr Pro Leu Phe Leu Val Phe Leu Thr
                                25
Ile Tyr Thr Val Thr Val Leu Gly Asn Leu Gly Met Ile Ile Val Ile
                           40
                                                45
Arg Ile Ser Pro Lys Leu His Thr Pro Met Cys Phe Phe Leu Ser His
                    55
                                            60
Leu Ser Phe Val Asp Phe Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu
                    70
                                        75
Leu Glu Asn Leu Val Val Glu Asp Arg Thr Ile Ser Phe Thr Gly Cys
                                    90
Thr Met Gln Leu Phe Phe Val Cys Ile Phe Val Val Thr Glu Thr Phe
                                105
Met Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Asn Pro
                            120
       115
                                                125
Leu Leu Tyr Thr Val Ala Met Tyr Gln Arg Leu Cys Ser Leu Leu Val
                       135
                                            140
Ala Thr Ser Tyr Cys Trp Gly Ile Val Cys Ser Leu Thr Leu Thr Xaa
                   150
Phe Leu Leu Glu Leu Ser Phe Arg Gly Asn Asn Ile Ile Asn Asn Phe
               165
                                    170
Val Cys Glu His Ala Ala Ile Val Ala Val Ser Cys Ser Asp Pro Cys
           180
                               185
                                                   190
Val Ser Gln Glu Ile Thr Leu Val Ser Ala Thr Phe Asn Glu Ile Ser
        195
                            200
Ser Leu Thr Ser Tyr Ala Phe Ile Phe Ile Thr Val Met Lys Thr Pro
                        215
                                            220
Ser Thr Gly Gly Arg Lys Lys Ala Phe Ser Thr Ser Ala Ser His Leu
                   230
                                        235
Thr Ala Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr Cys Val
               245
                                    250
Pro Asn Ser Lys Ser Ser Trp Leu Met Val Lys Val Ala Ser Val Phe
                               265
Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg
                           280
                                               285
Asn Lys Asp Val Lys Glu Thr Val Arg Arg Leu Leu Ile Thr Lys Leu
                       295
Leu Cys Leu Ile Leu Xaa Asn
<210> 1131
<211> 334
<212> PRT
<213> Unknown (H38g47 protein)
<220>
<223> Synthetic construct
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<221> VARIANT
<222> (1)...(334)
<223> Xaa = Any Amino Acid
<400> 1131
Tyr Ala Asp Pro Gln Asn Leu Thr Asp Val Ser Ile Phe Leu Leu Leu
                                    10
 1
                5
Glu Val Ser Gly Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Phe
            20
                                25
Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
                            40
Ala Ile Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
                        55
                                            60
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
                   70
                                        75
Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala
                                    90
               85
Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
                                105
           100
                                                    110
Glu Asn Met Leu Leu Ser Val Met Ala Tyr Asp Trp Phe Val Ala Ile
                            120
                                                125
Cys His Pro Leu Tyr His Leu Thr Ile Met Asn Pro Cys Phe Cys Ala
                        135
                                            140
Phe Leu Val Leu Leu Ser Phe Phe Phe Ser Val Phe Xaa His Ser Gln
                   150
                                        155
Leu His Asn Leu Ile Ala Leu Gln Val Thr Cys Phe Lys Asp Val Glu
                                    170
               165
Ile Pro Asn Phe Phe Cys Asp Pro Ser Gln Leu Ser His Leu Ala Cys
                                185
Cys Asp Thr Phe Thr Ile Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile
       195
                           200
                                                205
Phe Gly Phe Leu Pro Ile Leu Gly Thr Leu Phe Ser Phe Ser Lys Ile
                       215
                                            220
Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala
                                        235
                   230
Leu Ser Thr Cys Gly Ser Arg Leu Ser Val Val Cys Xaa Val Tyr Gly
               245
                                    250
Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Pro Arg
            260
                                265
                                                    270
Lys Gly Ala Val Ala Ser Val Met Tyr Thr Leu Val Thr Pro Met Leu
        275
                            280
                                                285
Thr Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Val Leu
                       295
                                            300
Arg Gln Pro His Gly Ser Thr Val Xaa Ser Gln Tyr Leu Ile Cys Ser
                                       315
                   310
Ile Pro Phe Val Val Trp Val Gln Lys Gly Ser Lys Val Lys
               325
                                    330
<210> 1132
<211> 307
<212> PRT
<213> Unknown (H38g48 protein)
<220>
<223> Synthetic construct
<400> 1132
Met Glu Thr Gly Asn Leu Thr Trp Val Ser Asp Phe Val Phe Leu Gly
                                   10
Leu Ser Gln Thr Arg Glu Leu Gln Arg Phe Leu Phe Leu Met Phe Leu
                                25
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Phe Val Tyr Ile Thr Thr Val Met Gly Asn Ile Leu Ile Ile Ile Thr
                             40
 Val Thr Ser Asp Ser Gln Leu His Thr Pro Met Tyr Phe Leu Leu Arg
                         55
 Asn Leu Ala Val Leu Asp Leu Cys Phe Ser Ser Val Thr Ala Pro Lys
                     70
 Met Leu Val Asp Leu Leu Ser Glu Lys Lys Thr Ile Ser Tyr Gln Gly
 Cys Met Gly Gln Ile Phe Phe Phe His Phe Leu Gly Gly Ala Met Val
                                105
 Phe Phe Leu Ser Val Met Ala Phe Asp Arg Leu Ile Ala Ile Ser Arg
                             120
 Pro Leu Arg Tyr Val Thr Val Met Asn Thr Gln Leu Trp Val Gly Leu
                        135
                                             140
 Val Val Ala Thr Trp Val Gly Gly Phe Val His Ser Ile Val Gln Leu
                    150
                                        155
 Ala Leu Met Leu Pro Leu Pro Phe Cys Gly Pro Asn Ile Leu Asp Asn
                165
                                    170
 Phe Tyr Cys Asp Val Pro Gln Val Leu Arg Leu Ala Cys Thr Asp Thr
           180
                                185
 Ser Leu Leu Glu Phe Leu Lys Ile Ser Asn Ser Gly Leu Leu Asp Val
        195
                            200
                                                 205
 Val Trp Phe Phe Leu Leu Met Ser Tyr Leu Phe Ile Leu Val Met
                        215
                                             220
 Leu Arg Ser His Pro Gly Glu Ala Arg Arg Lys Ala Ala Ser Thr Cys
 225
                    230
                                        235
 Thr Thr His Ile Ile Val Val Ser Met Ile Phe Val Pro Ser Ile Tyr
                245
                                    250
Leu Tyr Ala Arg Pro Phe Thr Pro Phe Pro Met Asp Lys Leu Val Ser
            260
                                265
Ile Gly His Thr Val Met Thr Pro Met Leu Asn Pro Met Ile Tyr Thr
                            280
Leu Arg Asn Gln Asp Met Gln Ala Ala Val Arg Arg Leu Gly Arg His
   290
                        295
Arg Leu Val
305
<210> 1133
<211> 316
<212> PRT
<213> Unknown (H38g49 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(316)
<223> Xaa = Any Amino Acid
<400> 1133
His Thr Glu Pro Gln Asn Leu Thr Asp Val Xaa Glu Phe Leu Leu Leu
1
                5
                                    10
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser
                                25
                                                    30
Leu Ser Leu Ser Met Tyr Leu Val Met Val Leu Arg Asn Leu Leu Ser
                            40
                                                45
Ile Leu Ala Val Ser Ser Val Ser Pro Leu His Thr Pro Asn Leu Cys
                        55
Trp Ala Asp Ile Gly Phe Thr Leu Ala Thr Val Pro Lys Met Ile Val
                   70
Asp Met Gln Ser His Ser Arg Val Ile Ser His Ala Gly Cys Leu Thr
```

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90
Gln Met Ser Phe Phe Ile Leu Phe Ala Cys Ile Glu Gly Met Leu Leu
                               105
Thr Val Met Ala Tyr Asp Cys Phe Val Ala Ile Cys Arg Pro Leu His
                           120
                                                125
Tyr Pro Val Ile Val Asn Pro His Leu Cys Val Phe Phe Val Leu Val
                       135
                                           140
Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser Xaa Ile Val
                    150
                                        155
Leu Gln Phe Thr Ile Ile Lys Asn Val Glu Ile Ser His Phe Phe Cys
                165
                                    170
Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys Ser Asp Ser Val Ile Asn
           180
                                185
Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly Phe Leu Pro Ile
                            200
                                                205
Ser Gly Ile Leu Trp Ser Tyr Tyr Lys Ile Ile Pro Ser Ile Leu Arg
                        215
                                            220
Ile Ser Ser Ser Tyr Gly Lys Tyr Lys Ala Phe Ser Thr Cys Ala Ser
                    230
                                        235
His Leu Ala Val Val Cys Xaa Phe Tyr Val Thr Gly Ile Gly Met Tyr
                245
                                    250
Leu Thr Ser Ala Val Ser Pro Pro Pro Ser Asn Gly Val Val Ala Ser
                               265
            260
                                                    270
Val Met Tyr Ala Ala Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser
                                               285
       275
                            280
Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Arg Arg Val Leu Ser Arg
                       295
Thr Val Glu Phe His Asp Leu Phe His Pro Phe Ser
                    310
<210> 1134
<211> 123
<212> PRT
<213> Unknown (H38g50 protein)
<220>
<223> Synthetic construct
<400> 1134
Met Ser Gly Ser Pro Thr Gln Leu Thr Ala Gly Pro Arg Thr Ala Ser
                                    10
Gly Cys Val Ile Met Ile Cys Phe Ala Leu Thr Val Leu Ser Tyr Ile
                                25
Arg Ile Leu Ala Thr Val Val Gln Ile Arg Ser Ala Ala Ser Arg Arg
                            40
                                                45
Lys Ala Phe Ser Thr Cys Ser Ser His Leu Gly Met Val Leu Leu Phe
                       55
                                            60
Tyr Gly Thr Gly Ser Ser Thr Tyr Met Arg Pro Thr Thr Arg Tyr Ser
                                        75
                    70
Pro Leu Glu Gly Arg Leu Ala Ala Val Phe Tyr Ser Ile Leu Ile Pro
                                    90
Thr Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Gln Asp Met Lys Arg
                                105
Ala Leu Trp Lys Leu Tyr Leu Gln Val Pro Tyr
       115
                            120
<210> 1135
<211> 356
<212> PRT
<213> Unknown (H38g51 protein)
```

```
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(356)
<223> Xaa = Any Amino Acid
<400> 1135
Met Ile Asn Asp Ser His Phe Ser Gly Phe Ile Leu Leu Gly Phe Thr
                                   10
Gly Gln Pro Gln Leu Gln Met Met Ile Ser Gly Val Val Phe Phe
                               25
Tyr Thr Ile Ala Phe Met Gly Asn Met Ala Ile Ile Leu Leu Ser Phe
                           40
Leu Asp Asp His Leu Gln Val Pro Met Tyr Phe Phe Leu Arg Asn Leu
                       55
Ala Ile Leu Asp Leu Cys Tyr Thr Thr Asn Ile Val Pro Gln Met Leu
Val Ser Ile Trp Gly Lys Asp Lys Arg Ile Thr Phe Gly Gly Cys Ala
                                   90
Phe Gln Leu Phe Ile Asp Val Ala Leu Tyr Ser Val Glu Cys Ile Leu
                              105
          100
Leu Ser Met Met Ser Tyr Asp Arg Leu Asn Ala Ile Cys Lys Pro Leu
                       120
                                              125
    115
His His Met Thr Ile Met Asn Leu Gln Leu Cys Gln Gly Leu Val Val
                                          140
                      135
Ile Ser Trp Val Val Gly Val Ile Asn Cys Ile Ile Pro Ser Pro Tyr
                                      155
        150
Ala Thr Ser Leu Pro Arg Cys Arg Asn His His Leu Asp His Phe Phe
               165
                                   170
Val Cys Val Lys Cys Leu Gln Xaa Ser Arg Phe Lys Ile Ala Cys Val
                               185
Asp Thr Thr Ala Met Glu Val Thr Thr Phe Ala Met Cys Leu Ile Ile
                                              205
                           200
       195
Val Leu Val Pro Leu Leu Leu Ile Leu Val Ser Tyr Gly Phe Ile Ala
                      215
                                          220
Val Ala Val Leu Lys Ile Lys Ser Ala Ala Gly Arg Gln Lys Ala Phe
                  230
                                      235
Gly Thr Cys Ser Ser His Leu Val Val Val Ser Ile Phe Cys Gly Thr
                                                      255
               245
                                   250
Val Thr Tyr Met Tyr Ile Gln Pro Gly Asn Ser Pro Asn Gln Asn Glu
                                                  270
                               265
Gly Lys Leu Leu Ser Ile Phe Tyr Ser Ile Val Thr Pro Ser Leu Asn
                                              285
                          280
Pro Leu Ile Tyr Thr Val Arg Asn Lys Glu Phe Lys Gly Ala Met Lys
                      295
                                          300
Arg Leu Thr Gly Lys Glu Lys Asp Cys Met Glu Lys Arg Gly His Xaa
                                      315
Phe Phe Leu Pro Ala Ile Ser Asn Met Ala Ile Asp Leu Pro Asn Leu
                                  330
               325
Lys Cys Arg Gln Phe Ile Leu Xaa Ile Asn Cys Leu His Leu Arg Xaa
                               345
           340
Arg Xaa Tyr Pro
       355
<210> 1136
<211> 317
<212> PRT
<213> Unknown (H38g52 protein)
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<220>

<223> Synthetic construct

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<400> 1136
Met Ile Asn Asp Ser Tyr Phe Gly Trp Leu Met Leu Leu Gly Phe Pro
                                   10
Gly Lys Pro Gln Leu Glu Met Ile Ile Ser Gly Val Val Phe Phe
                               25
        20
Tyr Ala Ile Ser Leu Met Gly Asn Met Val Leu Ile Leu Leu Pro Leu
                           40
Leu Asp Lys His Leu Gln Thr Pro Ile Tyr Phe Phe Leu Arg Asn Leu
                       55
Ala Ile Leu Asp Leu Cys Tyr Thr Thr Asn Ile Val Pro Gln Met Leu
                   70
                                       75
Val Asn Ala Trp Gly Lys Asp Lys Lys Ile Thr Phe Gly Gly Cys Ala
               85
                                   90
Phe Gln Leu Phe Thr Asn Val Thr Leu Cys Thr Val Glu Cys Met Leu
                               105
                                                   110
Leu Ala Val Met Ser Tyr Asp Pro Phe Asn Ala Val Cys Lys Pro Leu
       115
                           120
                                               125
Asp Tyr Met Thr Ile Met Asn Pro Gln Leu Cys Gln Gly Leu Val Ala
                       135
                                           140
Met Thr Trp Leu Ile Gly Val Thr Asn Cys Met Ile Leu Ser Pro Cys
                                       155
                   150
Pro Val Ser Leu Pro Arg Cys Gly Asp His His Leu Asp His Tyr Phe
                                   170
                                                       175
               165
Cys Glu Ile Ser Ala Met Val Lys Ile Ala Cys Gly Ala Thr Thr Val
                               185
           180
Met Glu Glu Lys Pro Tyr Leu His Cys Val Val Val Val Phe Ile
                           200
Phe Leu Ala Ser Leu Leu Leu Ile Leu Val Ser Tyr Gly Phe Ile Ala
                       215
                                           220
Val Ala Val Leu Lys Ile Lys Ser Ala Ala Gly Arg Gln Lys Ala Phe
                   230
                                       235
Gly Thr Cys Phe Ser His Leu Ile Val Val Ser Ile Phe Tyr Gly Thr
               245
                                   250
Val Arg Tyr Met Tyr Ile Glu Pro Gly Asn Ser Pro Ser Gln Asp Glu
                               265
Gly Lys Leu Leu His Ile Phe Tyr Ser Ile Val Thr Pro Thr Leu Asn
                           280
                                               285
Pro Tyr Pro Leu Arg Asn Lys Glu Phe Lys Trp Ala Met Lys Arg Leu
                      295
                                           300
Ile Gly Lys Glu Lys Gly Ser Gly Asp Thr Ile Gly His
                   310
<210> 1137
<211> 312
<212> PRT
<213> Unknown (H38g53 protein)
<220>
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<223> Synthetic construct

<400> 1137

Met Val Asn Gln Ser Ser Thr Pro Gly Phe Leu Leu Gly Phe Ser 10 Glu His Pro Gly Leu Glu Arg Thr Leu Phe Val Val Val Phe Thr Ser 25 Tyr Leu Leu Thr Leu Val Gly Asn Thr Leu Ile Ile Leu Leu Ser Ala 45 40 Leu Asp Pro Lys Leu His Ser Pro Met Tyr Phe Phe Leu Ser Asn Leu

```
Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Cys Val Pro Gln Met Leu
                    70
                                        75
 Val Asn Leu Trp Gly Pro Lys Lys Thr Ile Ser Phe Leu Asp Cys Ser
                                    90
                85
Val Gln Ile Phe Ile Phe Leu Ser Leu Gly Thr Thr Glu Cys Ile Leu
            100
                                105
Leu Thr Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Gln Pro Leu
        115
                            120
                                                125
His Tyr Ala Thr Ile Ile His Pro Arg Leu Cys Trp Gln Leu Ala Ser
                        135
                                            140
Val Ala Trp Val Ile Gly Leu Val Glu Ser Val Val Gln Thr Pro Ser
                    150
                                        155
Thr Leu His Leu Pro Phe Cys Pro Asp Arg Gln Val Asp Asp Phe Val
                165
                                    170
Cys Glu Val Pro Ala Leu Ile Arg Leu Ser Cys Glu Asp Thr Ser Tyr
            180
                                185
                                                    190
Asn Glu Ile Gln Val Ala Val Ala Ser Val Phe Ile Leu Val Val Pro
                            200
Leu Ser Leu Ile Leu Val Ser Tyr Gly Ala Ile Thr Trp Ala Val Leu
                        215
                                            220
Arg Ile Asn Ser Ala Lys Gly Arg Arg Lys Ala Phe Gly Thr Cys Ser
                    230
                                        235
Ser His Leu Thr Val Val Thr Leu Phe Tyr Ser Ser Val Ile Ala Val
                245
                                    250
Tyr Leu Gln Pro Lys Asn Pro Tyr Ala Gln Glu Arg Gly Lys Phe Phe
                                265
                                                    270
Gly Leu Phe Tyr Ala Val Gly Thr Pro Ser Leu Asn Pro Leu Ile Tyr
                            280
Thr Leu Arg Asn Lys Glu Val Thr Arg Ala Phe Arg Arg Leu Leu Gly
                        295
                                            300
Lys Glu Met Gly Leu Thr Gln Ser
<210> 1138
<211> 343
<212> PRT
<213> Unknown (H38g54 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(343)
<223> Xaa = Any Amino Acid
<400> 1138
Met Val Asn Gln Ser Ser Ala Pro Gly Phe Leu Leu Gly Phe Ser
                                    10
Glu His Pro Ala Leu Glu Arg Thr Leu Phe Val Val Phe Thr Ser
                                25
Tyr Leu Leu Thr Leu Gly Gly Leu Ile Ile Leu Leu Ser Val Leu Asp
                            40
Pro Arg Leu His Ser Pro Met Tyr Phe Phe Leu Ser Asn Leu Ser Phe
                        55
                                            60
Leu Asp Leu Cys Phe Thr Ile Ser Cys Val Pro Gly Met Leu Val Asn
                   70
                                        75
Leu Trp Glu Pro Lys Lys Thr Ile Ile Leu Leu Gly Cys Ser Val Gln
               85
                                    90
Phe Phe Ile Phe Leu Ser Leu Gly Thr Thr Glu Cys Ile Leu Leu Thr
Val Met Ala Phe Asp Arg Tyr Met Ala Ile Phe Lys Pro Leu Arg His
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120
        115
 Ala Thr Ile Val His Leu Cys Leu Cys Trp Gln Leu Ala Ser Val Ala
                        135
                                            140
 Trp Val Ile Gly Leu Val Glu Ser Val Val Gln Thr Pro Ser Thr Leu
                    150
                                        155
 Arg Leu Pro Phe Cys Pro His Gln Gln Val Asp Asp Phe Val Cys Glu
                                    170
 Val Pro Ala Leu Ile Arg Leu Ser Cys Glu Asp Thr Ser Tyr Asn Glu
                                185
 Ile Gln Met Ala Val Ala Ser Val Phe Ile Leu Ala Val Pro Ser Leu
                            200
                                                205
 Ile Leu Val Ser Tyr Gly Ala Ile Ala Trp Ala Val Leu Arg Ile Thr
                        215
                                            220
Ala Lys Gly Gln Arg Lys Ala Phe Gly Thr Cys Ser Ser His Leu Thr
                                        235
                    230
 Val Val Thr Leu Phe Tyr Ser Ser Val Ile Ala Val Tyr Leu Gln Pro
                245
                                    250
Lys Asn Pro Tyr Ala Gln Glu Arg Gly Lys Phe Phe Gly Leu Phe Tyr
            260
                                265
Ala Val Gly Thr Pro Ser Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn
        275
                            280
Lys Glu Val Thr Arg Ala Phe Arg Arg Leu Leu Ala Lys Glu Met Gly
                        295
Leu Ile Gln Ser Xaa Gly Arg Ala Val Xaa Cys Ala Phe Xaa Ile Lys
                    310
                                        315
Lys Lys Leu Phe Ile Leu Leu Xaa Thr Ser Leu Ser Ser Gln Val Tyr
                325
                                    330
Tyr Leu Ser Tyr Thr His His
            340
<210> 1139
<211> 291
<212> PRT
<213> Unknown (H38g55 protein)
<220>
<223> Synthetic construct
<400> 1139
Met Phe Ala Ala Leu Val Leu Cys Tyr Leu Leu Thr Leu Thr Gly
                                    10
Asn Ser Ala Leu Val Leu Leu Ala Val Arg Asp Pro Arg Leu His Thr
                                25
Pro Met Tyr Tyr Phe Leu Cys His Leu Ala Leu Val Asp Ala Gly Phe
                            40
Thr Thr Ser Val Val Pro Pro Leu Leu Ala Asn Leu Arg Gly Pro Ala
Leu Trp Leu Pro Arg Ser His Cys Thr Ala Gln Leu Cys Ala Ser Leu
                    70
Ala Leu Gly Ser Ala Glu Cys Val Leu Leu Ala Val Met Ala Leu Asp
                                    90
Arg Ala Ala Lys Lys Val Lys Gly Ala Ala Arg Arg Leu Leu Arg Ser
                                105
Leu Gly Arg Gly Gln Ala Gly Gln Ser Ala Ser Trp Leu Ser Gly Leu
                            120
Thr Asn Ser Val Ala Gln Thr Ala Leu Leu Ala Glu Arg Pro Leu Cys
                        135
                                            140
Ala Pro Arg Leu Leu Asp His Phe Ile Cys Glu Leu Pro Ala Leu Leu
                   150
                                       155
Lys Leu Ala Cys Gly Gly Asp Gly Asp Thr Thr Glu Asn Gln Met Phe
```

170

```
Ala Ala Arg Val Val Ile Leu Leu Pro Phe Ala Val Ile Leu Ala
            180
                               185
 Ser Tyr Gly Ala Val Ala Arg Ala Val Cys Cys Met Arg Phe Ser Gly
        195
                            200
                                               205
Gly Arg Arg Arg Ala Val Gly Thr Cys Gly Ser His Leu Thr Ala Val
                        215
                                           220
Cys Leu Phe Tyr Gly Ser Ala Ile Tyr Thr Tyr Leu Gln Pro Ala Gln
                    230
                                        235
Arg Tyr Asn Gln Ala Arg Gly Lys Phe Val Ser Leu Phe Tyr Thr Val
                                    250
Val Thr Pro Ala Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Lys
            260
                               265
Val Lys Gly Ala Ala Arg Arg Leu Leu Arg Ser Leu Gly Arg Gly Gln
        275
                 280
                                    285
Ala Gly Gln
    290
<210> 1140
<211> 307
<212> PRT
<213> Unknown (H38g56 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(307)
<223> Xaa = Any Amino Acid
<400> 1140
Glu Leu Ile Thr Asn Ser Ser Ser Val Pro Ser Cys Glu Arg Thr Ile
                5
                                   10
Gln Ile Phe Leu Phe Ser Leu Ile Thr Thr Ile Tyr Ala Leu Thr Ile
                               25
Thr Gly Asn Gly Ala Ile Ala Phe Ala Leu Trp Cys Asp Arg Arg Leu
                            40
His Thr Pro Met Tyr Met Phe Leu Gly Asp Phe Ser Phe Leu Glu Ile
                       55
                                           60
Trp Tyr Val Phe Ser Thr Val Pro Lys Met Leu Val Asn Phe Leu Ser
                   70
                                    • 75
Glu Lys Thr Asn Ile Ser Phe Ala Gly Cys Phe Leu Gln Ile Tyr Phe
Phe Phe Ser Leu Asn Thr Ser Glu Cys Leu Leu Leu Thr Val Met Ala
           100
                               105
Phe Asp Gln Asn Leu Ala Ile Cys Arg Pro Leu His Tyr Pro Asn Ile
       115
                           120
                                               125
Met Thr Gly His Leu Cys Ala Lys Leu Ala Ile Leu Cys Trp Val Cys
                       135
                                           140
Gly Phe Leu Trp Phe Leu Ile Pro Ile Val Leu Ile Ser Gln Met Pro
                                       155
Phe Cys Gly Pro Asn Ile Ile Asp His Val Val Cys Asp Pro Gly Pro
               165
                                   170
Leu Phe Ala Leu Asp Cys Val Ser Ala Pro Arg Ile Gln Leu Phe Cys
           180
                               185
Tyr Thr Leu Ser Ser Leu Val Ile Phe Gly Asn Phe Leu Phe Ile Ile
       195
                           200
                                               205
Gly Ser Tyr Thr Ile Val Leu Lys Val Val Leu Gly Thr Pro Ser Ser
                       215
                                           220
Thr Gly Arg His Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ala Val
                   230
                                       235
Val Ser Leu Cys Tyr Gly Ser Leu Met Val Met Tyr Val Ser Pro Gly
```

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245
                                   250
Leu Gly His Ser Thr Glu Met Gln Lys Ile Val Thr Leu Phe Tyr Ala
                               265
Met Val Thr Ser Leu Phe Asn Pro Leu Ile Tyr Ser Leu Gln Asn Lys
                           280
                                               285
Glu Ile Lys Ala Ala Leu Arg Lys Val Leu Val Ser Ser Asn Ile Ile
                    295
                                            300
Xaa Gly Ile
305
<210> 1141
<211> 221
<212> PRT
<213> Unknown (H38g57 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(221)
<223> Xaa = Any Amino Acid
<400> 1141
Ala Cys Lys His Asp Met Ile Leu Thr Val Met Ala Tyr Asp Cys Leu
              5
                                    10
Val Ala Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His
          20
                               25
Leu Cys Val Phe Phe Val Leu Val Ser Phe Phe Ile Ser Met Xaa Asp
                            40
                                                45
Ser Gln Leu His Ser Xaa Ile Val Leu Gln Phe Thr Ile Ile Lys Asn
                        55
Val Glu Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Phe Leu Lys Leu
                    70
                                        75
Ala Cys Ser Asp Ser Val Ile Asn Ser Ile Phe Thr Tyr Phe His Ser
               85
                                   90
Thr Met Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Phe
            100
                               105
                                                   110
Lys Ile Val Thr Phe Ile Leu Trp Ile Ser Ser Asp Gly Lys Tyr
                           120
                                                125
Lys Ala Phe Ser Thr Cys Asp Ser His Leu Ala Val Val Cys Xaa Phe
                       135
                                           140
Tyr Gly Thr Gly Ile Gly Val Tyr Leu Thr Ser Ala Leu Ser Pro Pro
                   150
                                       155
Pro Arg Asn Gly Val Met Ala Ser Val Met Tyr Ala Val Val Thr Pro
                165
                                   170
                                                       175
Met Leu Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser
                               185
Ala Leu Trp Arg Leu Leu Ser Arg Thr Val Glu Ser His Asp Leu Phe
      195
                           200
                                               205
His Pro Phe Ser Cys Val Gly Lys Gly Asn His Ile Lys
   210
                      215
<210> 1142
<211> 314
<212> PRT
<213> Unknown (H38g58 protein)
<220>
<223> Synthetic construct
<400> 1142
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486

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Met Ala Lys Asn Asn Leu Thr Arg Val Thr Glu Phe Ile Leu Met Gly
 Phe Met Asp His Pro Lys Leu Glu Ile Pro Leu Phe Leu Val Phe Leu
 Ser Phe Tyr Leu Val Thr Leu Leu Gly Asn Val Gly Met Ile Met Leu
                             40
Ile Gln Val Asp Val Lys Leu Tyr Thr Pro Met Tyr Phe Phe Leu Ser
                        55
                                             60
His Leu Ser Leu Leu Asp Ala Cys Tyr Thr Ser Val Ile Thr Pro Gln
                                         75
Ile Leu Ala Thr Leu Ala Thr Gly Lys Thr Val Ile Ser Tyr Gly His
                                    90
Cys Ala Ala Gln Phe Phe Leu Phe Thr Ile Cys Ala Gly Thr Glu Cys
                                105
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Ala Ala Ile Arg Asn
                            120
                                                125
Pro Leu Leu Tyr Thr Val Ala Met Asn Pro Arg Leu Cys Trp Ser Leu
                        135
                                            140
Val Val Gly Ala Tyr Val Cys Gly Val Ser Gly Ala Ile Leu Arg Thr
                    150
                                        155
Thr Cys Thr Phe Thr Leu Ser Phe Cys Lys Asp Asn Gln Ile Asn Phe
                165
                                    170
Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr
            180
                                 185
Ala Asn Ile Glu Ile Val Ile Ile Phe Phe Gly Asn Phe Val Ile Leu
                             200
                                                 205
Ala Asn Ala Ser Val Ile Leu Ile Ser Tyr Leu Leu Ile Ile Lys Thr
                        215
                                            220
Ile Leu Lys Val Lys Ser Ser Gly Gly Arg Ala Lys Thr Phe Ser Thr
                    230
                                        235
Cys Ala Ser His Ile Thr Ala Val Ala Leu Phe Phe Gly Ala Leu Ile
                245
                                    250
Phe Met Tyr Leu Gln Ser Gly Ser Gly Lys Ser Leu Glu Glu Asp Lys
            260
                                265
Val Val Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
      <sub>-</sub>275
                            280
                                                285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Phe Arg Lys Val
                        295
                                            300
Ala Arg Arg Leu Gln Val Ser Leu Ser Met
                 310
<210> 1143
<211> 315
<212> PRT
<213> Unknown (H38g59 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(315)
<223> Xaa = Any Amino Acid
<400> 1143
Met Gly Gly Leu Lys Arg Asp Asn Ala Ser Glu Met Thr Glu Leu Ile
1
Leu Val Gly Phe Ala Gln His Pro Glu Ile Gln Thr Ala Phe Phe Leu
            20
                                25
Glu Leu Leu Phe Phe Tyr Xaa Ser Gln Leu Phe Glu Asn Ile Leu Ile
                            40
```

Val Ala Val Val Arg Xaa Asp Ser Arg Leu His Thr Pro Met Gly Phe

```
55
                                             60
 Phe Phe Leu Ser Thr Leu Ser Ser Leu Glu Met Cys Tyr Ser Ile Ser
                   70
 Trp Glu Leu Xaa Val Leu Ala Gln Cys Ile Lys Asp Phe Pro Thr Ile
                85
                                    90
 Ser Tyr Asn Ser Cys Ser Val Gln Met Ile Thr His Leu Phe Leu Gly
           100
                                105
 Thr Ala Gln Cys Leu Leu Leu Ala Gly Met Ala Tyr Asn Arg Phe Val
                            120
Glu Ile Ser Tyr Leu Leu His Tyr Thr Ile Ile Met Ser Asn Arg Val
                       135
                                            140
Cys Ile Gln Leu Ala Leu Gly Ile Trp Thr His Ala Phe Leu Val Ala
                    150
                                        155
Val Thr Leu Ile Ile Ala Ile Pro Ala Ser Tyr Tyr Gly His Asn Val
                165
                                    170
Ile Asn His Phe Thr Cys Glu Ile Gln Ala Leu Leu Lys Leu Val Cys
                                185
                                                    190
Ser Asp Thr Leu Val Ser Leu Ile Gln Gly Leu Val Ile Ser Val Phe
        195
                            200
                                                205
Thr Leu Pro Leu Pro Phe Thr Phe Ile Leu Ile Ser Xaa Phe Cys Ile
                        215
                                            220
Phe Val Arg Ala Val Glu Ala Arg Arg Glu Ala Phe Ser Thr Cys Gly
                    230
                                        235
Ser His Leu Thr Gly Val Thr Ile Phe Tyr Gly Ala Ala Ile Cys Met
                245
                                    250
                                                        255
Tyr Leu Lys Pro Gln Ser Lys Gly Thr Gln Glu Glu Asp Lys Val Val
                                265
                                                    270
Ser Lys Leu Tyr Gly Ala Val Thr Pro Met Leu Asn Pro Pro Ile Tyr
                            280
                                                285
Ile Gln Arg Asn Lys Asp Ile Lys Gly Ala Leu Arg Lys Leu Ala Lys
                        295
Gly Asn Glu Lys Ser Xaa Gln Phe Ser Leu Asn
                    310
<210> 1144
<211> 351
<212> PRT
<213> Unknown (H38g61 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(351)
<223> Xaa = Any Amino Acid
<400> 1144
Met Asp Ile Leu Val Ile Asp Asn Gly Ser Glu Val Thr Glu Phe Ile
                                    10
Leu Val Gly Leu Tyr Asn His Pro Lys Phe Gln Ile Ala Phe Tyr Arg
                                25
Thr Met Val Val Tyr Leu Ile Thr Phe Val Gly Ser Ser Leu Ile
                            40
Ile Val Val Lys Val Asp Gly Trp Leu His Thr Pro Met Cys Phe
Phe Leu Ser Asn Leu Ser Phe Leu Asp Ile Cys Tyr Ser Ser Asn Ser
                   70
Val Pro Phe Leu Leu Phe Asn Gly Leu Arg Asp Tyr Pro Thr Ile Ser
                                   90
Tyr Asn Ser Cys Tyr Ala Gln Met Thr Ser Ala Phe Phe Leu Gly Met
                               105
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Thr Gly Cys Leu Leu Leu Ala Val Met Ala Tyr Glu Arg Phe Val Val
                    120
Ile Ser Asn Pro Leu Arg Tyr Ile Ile Ile Met Asn Asn Lys Val Cys
                       135
                                           140
Ile Gln Leu Ala Met Val Thr Trp Ala Ser Ala Ser Pro Tyr Val Ile
                   150
                                        155
Asn Thr Ile Ile Ala Ile Ile His Cys Asn Asn Thr Leu Ile Ala Met
                                   170
Ile Ala Leu Ser Ile Pro Ala His Phe Cys Gly His Asn Val Ile Asn
                                185
His Phe Thr Cys Glu Val Gln Glu Leu Leu Lys Leu Val Cys Ser Asp
                           200
                                               205
Ile Pro Gly Ser Leu Ile Leu Gly Leu Val Ile Gly Ile Phe Thr Leu
                       215
                                           220
Ser Leu Pro Phe Thr Leu Pro Leu Pro Phe Thr Phe Ile Leu Phe Ala
                   230
                                       235
Tyr Ala His Ile Val Val Ala Val Leu Arg Ile Asn Ser Ala Glu Ala
               245
                                   250
Arg Leu Lys Ala Phe Ser Thr Cys Gly Ser His Leu Thr Val Ile Ile
          260
                               265
Ile Phe Tyr Gly Thr Ala Thr Tyr Met Tyr Leu Lys Pro Gln Ser Arg
       275
                          280
                                              285
Glu Ser Gln Asp Glu Gly Lys Val Ile Ser Val Phe Phe Leu Lys Val
                       295
                                           300
Glu Lys Gln His Gln Asn Asp Ser Ile Ser Val Phe Tyr Gly Val Val
                                       315
Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asp Lys Asp Ala
               325
                                   330
Lys His Ala Leu Arg Lys Ile Ile Arg Lys Lys Glu Ser Xaa Lys
                               345
```

<210> 1145

<211> 318

<212> PRT

<213> Unknown (H38g62 protein)

<220>

<223> Synthetic construct

<400> 1145

Met Asp Lys Ile Asn Gln Thr Phe Val Arg Glu Phe Ile Leu Leu Gly Leu Ser Gly Tyr Pro Lys Leu Glu Ile Ile Phe Phe Ala Leu Ile Leu 20 25 Val Met Tyr Val Val Ile Leu Ile Gly Asn Gly Val Leu Ile Ile Ala 40 45 Ser Ile Leu Asp Ser Arg Leu His Met Pro Met Tyr Phe Phe Leu Gly 55 60 Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Ser Ser Ile Pro Ser 70 75 Thr Leu Val Ser Leu Ile Ser Lys Lys Arg Asn Ile Ser Phe Ser Gly 85 90 Cys Ala Val Gln Met Phe Phe Gly Phe Ala Met Gly Ser Thr Glu Cys 105 Phe Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn 120 125 Pro Leu Arg Tyr Pro Ile Ile Met Asn Lys Val Val Tyr Val Leu Leu 135 140 Thr Ser Val Ser Trp Leu Ser Gly Gly Ile Asn Ser Thr Val Gln Thr 150 155 Ser Leu Ala Met Arg Trp Pro Phe Cys Gly Asn Asn Ile Ile Asn His

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165
                                    170
Phe Leu Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ser Asp Ile
                                185
            180
Ser Val Asn Ile Val Thr Leu Ala Val Ser Asn Ile Ala Phe Leu Val
                            200
                                                205
Leu Pro Leu Leu Val Ile Phe Phe Ser Tyr Met Phe Ile Leu Tyr Thr
                        215
                                            220
Ile Leu Arg Thr Asn Ser Ala Thr Gly Arg His Lys Ala Phe Ser Thr
                    230
                                        235
Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Phe
                245
                                    250
Phe Met Tyr Ala Lys Pro Lys Ser Gln Asp Leu Leu Gly Lys Asp Asn
                               265
Leu Gln Ala Thr Glu Gly Leu Val Ser Met Phe Tyr Gly Val Val Thr
                           280
                                               285
Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
                                          300
                      295
Ala Ala Ile Lys Tyr Leu Leu Ser Arg Lys Ala Ile Asn Gln
                    310
<210> 1146
<211> 319
<212> PRT
<213> Unknown (H38g63 protein)
<220>
<223> Synthetic construct
<400> 1146
Met Phe Pro Ala Asn Trp Thr Ser Val Lys Val Phe Phe Leu Gly
                                   10
Phe Phe His Tyr Pro Lys Val Gln Val Ile Ile Phe Ala Val Cys Leu
          20
                               25
Leu Met Tyr Leu Ile Thr Leu Leu Gly Asn Ile Phe Leu Ile Ser Ile
      35
                           40
                                              45
Thr Ile Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
                        55
                                           60
Asn Leu Ser Phe Leu Asp Ile Trp Tyr Ser Ser Ser Ala Leu Ser Pro
                                        75
                    70
Met Leu Ala Asn Phe Val Ser Gly Arg Asn Thr Ile Ser Phe Ser Gly
                                    90
               85
Cys Ala Thr Gln Met Tyr Leu Ser Leu Ala Met Gly Ser Thr Glu Cys
           100
                               105
Val Leu Leu Pro Met Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
                           120
                                               125
Pro Leu Arg Tyr Pro Val Ile Met Asn Arg Arg Thr Cys Val Gln Ile
                       135
Ala Ala Gly Ser Trp Met Thr Gly Cys Leu Thr Ala Met Val Glu Met
                   150
                                       155
Met Ser Val Leu Pro Leu Ser Leu Cys Gly Asn Ser Ile Ile Asn His
                                   170
               165
Phe Thr Cys Glu Ile Leu Ala Ile Leu Lys Leu Val Cys Val Asp Thr
           180
                               185
Ser Leu Val Gln Leu Ile Met Leu Val Ile Ser Val Leu Leu Pro
       195
                           200
                                               205
Met Pro Met Leu Leu Ile Cys Ile Ser Tyr Ala Phe Ile Leu Ala Ser
                       215
                                           220
Ile Leu Arg Ile Ser Ser Val Glu Gly Arg Ser Lys Ala Phe Ser Thr
                   230
                                       235
Cys Thr Ala His Leu Met Val Val Val Leu Phe Tyr Gly Thr Ala Leu
                                   250
               245
```

Ser Met His Leu Lys Pro Ser Ala Val Asp Ser Gln Glu Ile Asp Lys 265 Phe Met Ala Leu Val Tyr Ala Gly Gln Thr Pro Met Leu Asn Pro Ile 280 Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Val Ala Leu Lys Lys Leu 295 300 Leu Ile Arg Asn His Phe Asn Thr Ala Phe Ile Ser Ile Leu Lys <210> 1147 <211> 310 <212> PRT <213> Unknown (H38g64 protein) <220> <223> Synthetic construct <400> 1147 Met Ala Glu Met Asn Leu Thr Leu Val Thr Glu Phe Leu Leu Ile Ala 10 Phe Thr Glu Tyr Pro Glu Trp Ala Leu Pro Leu Phe Leu Phe Leu 25 Phe Met Tyr Leu Ile Thr Val Leu Gly Asn Leu Glu Met Ile Ile Leu 40 Ile Leu Met Asp His Gln Leu His Ala Pro Met Tyr Phe Leu Leu Ser 55 60 His Leu Ala Phe Met Asp Val Cys Tyr Ser Ser Ile Thr Val Pro Gln 70 Met Leu Ala Val Leu Leu Glu His Gly Ala Ala Leu Ser Tyr Thr Arg 85 90 Cys Ala Ala Gln Phe Phe Leu Phe Thr Phe Phe Gly Ser Ile Asp Cys 105 Tyr Leu Leu Ala Leu Met Ala Tyr Asp Arg Tyr Leu Ala Val Cys Gln 115 120 125 Pro Leu Leu Tyr Val Thr Ile Leu Thr Gln Gln Ala Arg Leu Ser Leu 135 140 Val Ala Gly Ala Tyr Val Ala Gly Leu Ile Ser Ala Leu Val Arg Thr 150 155 Val Ser Ala Phe Thr Leu Ser Phe Cys Gly Thr Ser Glu Ile Asp Phe 170 Ile Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Thr Cys Gly Glu Ser 180 185 190 Tyr Thr Gln Glu Val Leu Ile Ile Met Phe Ala Ile Phe Val Ile Pro 200 Ala Ser Met Val Val Ile Leu Val Ser Tyr Leu Phe Ile Ile Val Ala 215 220 Ile Met Gly Ile Pro Ala Gly Ser Gln Ala Lys Thr Phe Ser Thr Cys 235 Thr Ser His Leu Thr Ala Val Ser Leu Phe Phe Gly Thr Leu Ile Phe 245 250 Met Tyr Leu Arg Gly Asn Ser Asp Gln Ser Ser Glu Lys Asn Arg Val 260 265 Val Ser Val Leu Tyr Thr Glu Val Ile Pro Met Leu Asn Pro Leu Ile 280 Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Leu Arg Lys Ile Leu Asn Arg Ala Lys Leu Ser <210> 1148 <211> 321

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<212> PRT
<213> Unknown (H38g65 protein)
<223> Synthetic construct
<400> 1148
Met Gly Met Glu Gly Leu Leu Gln Asn Ser Thr Asn Phe Val Leu Thr
Gly Leu Ile Thr His Pro Ala Phe Pro Gly Leu Leu Phe Ala Ile Val
            20
Phe Ser Ile Phe Val Val Ala Ile Thr Ala Asn Leu Val Met Ile Leu
                            40
Leu Ile His Met Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu
                                            60
                        55
Ser Gln Leu Ser Ile Met Asp Thr Ile Tyr Ile Cys Ile Thr Val Pro
                    70
Lys Met Leu Gln Asp Leu Leu Ser Lys Asp Lys Thr Ile Ser Phe Leu
                                    90
                85
Gly Cys Ala Val Gln Ile Phe Leu Tyr Leu Thr Leu Ile Gly Glu
                                                    110
                                105
Phe Phe Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Val Cys
                                                125
                            120
Asn Pro Leu Arg Tyr Pro Leu Leu Met Asn Arg Arg Val Cys Leu Phe
                                            140
                        135
Met Val Val Gly Ser Trp Val Gly Gly Ser Leu Asp Gly Phe Met Leu
                                        155
                    150
Thr Pro Val Thr Met Ser Phe Pro Phe Cys Arg Ser Arg Glu Ile Asn
                                    170
                165
His Phe Phe Cys Glu Ile Pro Ala Val Leu Lys Leu Ser Cys Thr Asp
                                                    190
                                185
            180
Thr Ser Leu Tyr Glu Thr Leu Met Tyr Ala Cys Cys Val Leu Met Leu
                            200
        195
Leu Ile Pro Leu Ser Val Ile Ser Val Ser Tyr Thr His Ile Leu Leu
                                            220
                        215
Thr Val His Arg Met Asn Ser Ala Glu Gly Arg Arg Lys Ala Phe Ala
                    230
                                        235
Thr Cys Ser Ser His Ile Met Ala Val Ser Val Phe Tyr Gly Ala Ala
                                    250
                245
Phe Tyr Thr Asn Val Leu Pro His Ser Tyr His Thr Pro Glu Lys Asp
                                265
            260
Lys Val Val Ser Ala Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro
                                                285
                            280
        275
Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Ala Ala Ala Leu Arg Lys
                                            300
                        295
Val Leu Gly Arg Cys Gly Ser Ser Gln Ser Ile Arg Val Ala Thr Val
                                        315
                   310
Ile
<210> 1149
<211> 311
<212> PRT
<213> Unknown (H38g66 protein)
<223> Synthetic construct
<400> 1149
Met Ala His Thr Asn Glu Ser Met Val Ser Glu Phe Val Leu Leu Gly
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Leu Ser Asn Ser Trp Gly Leu Gln Leu Phe Phe Ala Ile Phe Ser
                                25
Ile Val Tyr Val Thr Ser Val Leu Gly Asn Val Leu Ile Ile Val Ile
        35
                            40
                                                 45
Ile Ser Phe Asp Ser His Leu Asn Ser Pro Met Tyr Phe Leu Leu Ser
                        55
                                             60
Asn Leu Ser Phe Ile Asp Ile Cys Gln Ser Asn Phe Ala Thr Pro Lys
                                         75
Met Leu Val Asp Phe Phe Ile Glu Arg Lys Thr Ile Ser Phe Glu Gly
Cys Met Ala Gln Ile Phe Val Leu His Ser Phe Val Gly Ser Glu Met
            100
                                105
                                                     110
Met Leu Leu Val Ala Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys Lys
                            120
        115
Pro Leu His Tyr Ser Thr Ile Met Asn Arg Arg Leu Cys Val Ile Phe
                        135
                                            140
Val Ser Ile Ser Trp Ala Val Gly Val Leu His Ser Val Ser His Leu
                    150
                                        155
Ala Phe Thr Val Asp Leu Pro Phe Cys Gly Pro Asn Glu Val Asp Ser
                165
                                    170
Phe Phe Cys Asp Leu Pro Leu Val Ile Glu Leu Ala Cys Met Asp Thr
                                                    190
            180
                                185
Tyr Glu Met Glu Ile Met Thr Leu Thr Asn Ser Gly Leu Ile Ser Leu
                            200
                                                205
        195
Ser Cys Phe Leu Ala Leu Ile Ile Ser Tyr Thr Ile Ile Leu Ile Gly
    210
                        215
                                            220
Val Arg Cys Arg Ser Ser Ser Gly Ser Ser Lys Ala Leu Ser Thr Leu
                                        235
                    230
Thr Ala His Ile Thr Val Val Ile Leu Phe Phe Gly Pro Cys Ile Tyr
                                    250
                245
Phe Tyr Ile Trp Pro Phe Ser Arg Leu Pro Val Asp Lys Phe Leu Ser
                                                    270
                                265
            260
Val Phe Tyr Thr Val Cys Thr Pro Leu Leu Asn Pro Ile Ile Tyr Ser
       275
                           280
                                                285
Leu Arg Asn Glu Asp Val Lys Ala Ala Met Trp Lys Leu Arg Asn Arg
                        295
                                            300
His Val Asn Ser Trp Lys Asn
                    310
<210> 1150
<211> 312
<212> PRT
<213> Unknown (H38g67 protein)
<220>
<223> Synthetic construct
<400> 1150
Met Asp Gln Lys Asn Gly Ser Ser Phe Thr Gly Phe Ile Leu Leu Gly
1
                                    10
Phe Ser Asp Arg Pro Gln Leu Glu Leu Val Leu Phe Val Val Leu Leu
                                25
Ile Phe Tyr Ile Phe Thr Leu Leu Gly Asn Lys Thr Ile Ile Val Leu
                            40
Ser His Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Phe Ser
                        55
                                            60
```

90

75

Asn Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Gly Ile Val Pro Gln

Leu Leu Val Asn Leu Arg Gly Ala Asp Lys Ser Ile Ser Tyr Gly Gly

Cys Val Val Gln Leu Tyr Ile Ser Leu Gly Leu Gly Ser Thr Glu Cys

70

```
105
                                                    110
           100
Val Leu Leu Gly Val Met Val Phe Asp Arg Tyr Ala Ala Val Cys Arg
                           120
                                               125
Pro Leu His Tyr Thr Val Val Met His Pro Cys Leu Tyr Val Leu Met
                                           140
                       135
Ala Ser Thr Ser Trp Val Ile Gly Phe Ala Asn Ser Leu Leu Gln Thr
                                       155
                   150
Val Leu Ile Leu Leu Thr Leu Cys Gly Arg Asn Lys Leu Glu His
                                   170
               165
Phe Leu Cys Glu Val Pro Pro Leu Leu Lys Leu Ala Cys Val Asp Thr
                               185
                                                    190
Thr Met Asn Glu Ser Glu Leu Phe Phe Val Ser Val Ile Ile Leu Leu
                            200
Val Pro Val Ala Leu Ile Ile Phe Ser Tyr Ser Gln Ile Val Arg Ala
                       215
                                            220
Val Met Arg Ile Lys Leu Ala Thr Gly Gln Arg Lys Val Phe Gly Thr
                    230
                                        235
Cys Gly Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly Thr Ala Ile
                245
                                    250
Tyr Ala Tyr Leu Gln Pro Gly Asn Asn Tyr Ser Gln Asp Gln Gly Lys
                                265
                                                    270
Phe Ile Ser Leu Phe Tyr Thr Ile Ile Thr Pro Met Ile Asn Pro Leu
        275
                            280
Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Lys Lys Val
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Leu Trp Lys Asn Tyr Asp Ser Arg
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Phe Thr Leu Thr Gly Leu Phe Ala Glu Ser Lys His Ala Ala Leu Leu
Tyr Thr Val Thr Phe Leu Leu Phe Leu Met Ala Leu Thr Gly Asn Ala
                            40
Leu Leu Ile Leu Leu Ile His Ser Glu Pro Arg Leu His Thr Pro Met
                       55
Tyr Phe Phe Ile Ser Gln Leu Ala Leu Met Asp Leu Met Tyr Leu Cys
                   70
                                       75
Val Thr Val Pro Lys Met Leu Val Gly Gln Val Thr Gly Asp Asp Thr
                                   90
               85
Ile Ser Pro Ser Gly Cys Gly Ile Gln Met Phe Phe His Leu Thr Leu
                               105
Ala Gly Ala Glu Val Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr
                           120
Ala Ala Val Cys Arg Pro Leu His Tyr Pro Leu Leu Met Asn Gln Arg
                       135
Val Cys Gln Leu Leu Val Ser Ala Cys Trp Val Leu Gly Met Val Asp
                                       155
Gly Leu Leu Thr Pro Ile Thr Met Ser Phe Pro Phe Cys Gln Ser
               165
                                   170
Arg Lys Ile Leu Ser Phe Phe Cys Glu Thr Pro Ala Leu Leu Lys Leu
                               185
```

```
Ser Cys Ser Asp Val Ser Leu Tyr Lys Met Leu Thr Tyr Leu Cys Cys
                           200
                                                205
Ile Leu Met Leu Leu Thr Pro Ile Met Val Ile Ser Ser Ser Tyr Thr
                                           220
                       215
Leu Ile Leu His Leu Ile His Arg Met Asn Ser Ala Ala Gly Arg Arg
                                       235
                   230
Lys Ala Leu Ala Thr Cys Ser Ser His Met Ile Ile Val Leu Leu Leu
                                   250
               245
Phe Gly Ala Ser Phe Tyr Thr Tyr Met Leu Pro Ser Ser Tyr His Thr
                               265
                                                   270
Ala Glu Gln Asp Met Met Val Ser Ala Phe Tyr Thr Ile Phe Thr Pro
                           280
                                              285
Val Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Thr Arg
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Ala Met Arg Ser Met Met Gln Ser Arg
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<210> 1152
<211> 314
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Met Asp Val Gly Asn Lys Ser Thr Met Ser Glu Phe Val Leu Leu Gly
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Leu Ser Asn Ser Trp Glu Leu Gln Met Phe Phe Phe Met Val Phe Ser
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                                                   30
Leu Leu Tyr Val Ala Thr Met Val Gly Asn Ser Leu Ile Val Ile Thr
      35
                           40
Val Ile Val Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Thr
                       55
Asn Leu Ser Ile Ile Asp Met Ser Leu Ala Ser Phe Ala Thr Pro Lys
                   70
                                       75
Met Ile Thr Asp Tyr Leu Thr Gly His Lys Thr Ile Ser Phe Asp Gly
                                   90
               85
Cys Leu Thr Gln Ile Phe Phe Leu His Leu Phe Thr Gly Thr Glu Ile
           100
                               105
Ile Leu Leu Met Ala Met Ser Phe Asp Arg Tyr Ile Ala Ile Cys Lys
                                               125
                           120
Pro Leu His Tyr Ala Ser Val Ile Ser Pro Gln Val Cys Val Ala Leu
                                           140
                       135
Val Val Ala Ser Trp Ile Met Gly Val Met His Ser Met Ser Gln Val
                  150
                                       155
Ile Phe Ala Leu Thr Leu Pro Phe Cys Gly Pro Tyr Glu Val Asp Ser
                                                       175
                                   170
Phe Phe Cys Asp Leu Pro Val Val Phe Gln Leu Ala Cys Val Asp Thr
                               185
                                                   190
           180
Tyr Val Leu Gly Leu Phe Met Ile Ser Thr Ser Gly Ile Ile Ala Leu
                                               205
                           200
Ser Cys Phe Ile Val Leu Phe Asn Ser Tyr Val Ile Val Leu Val Thr
                                           220
                       215
Val Lys His His Ser Ser Arg Gly Ser Ser Lys Ala Leu Ser Thr Cys
                                       235
                   230
Thr Ala His Phe Ile Val Val Phe Leu Phe Phe Gly Pro Cys Ile Phe
              245
                                   250
Ile Tyr Met Trp Pro Leu Ser Ser Phe Leu Thr Asp Lys Ile Leu Ser
                               265
Val Phe Tyr Thr Ile Phe Thr Pro Thr Leu Asn Pro Ile Ile Tyr Thr
```

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280
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        275
Leu Arg Asn Gln Glu Val Lys Ile Ala Met Arg Lys Leu Lys Asn Arg
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Phe Leu Asn Phe Asn Lys Ala Met Pro Ser
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<210> 1153
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<212> PRT
<213> Unknown (H38g70 protein)
<223> Synthetic construct
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Met Gly Asp Asn Ile Thr Ser Ile Arg Glu Phe Leu Leu Gly Phe
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Pro Val Gly Pro Arg Ile Gln Met Leu Leu Phe Gly Leu Phe Ser Leu
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                                25
Phe Tyr Val Phe Thr Leu Leu Gly Asn Gly Thr Ile Leu Gly Leu Ile
                            40
Ser Leu Asp Ser Arg Leu His Ala Pro Met Tyr Phe Phe Leu Ser His
                        55
Leu Ala Val Val Asp Ile Ala Tyr Ala Cys Asn Thr Val Pro Arg Met
                    70
                                       75
Leu Val Asn Leu Leu His Pro Ala Lys Pro Ile Ser Phe Ala Gly Arg
                85
                                   90
Met Met Gln Thr Phe Leu Phe Ser Thr Phe Ala Val Thr Glu Cys Leu
                               105
           100
Leu Leu Val Val Met Ser Tyr Asp Leu Tyr Val Ala Ile Cys His Pro
                           120
                                               125
Leu Arg Tyr Leu Ala Ile Met Thr Trp Arg Val Cys Ile Thr Leu Ala
                       135
                                           140
Val Thr Ser Trp Thr Thr Gly Val Leu Leu Ser Leu Ile His Leu Val
                                       155
                   150
Leu Leu Pro Leu Pro Phe Cys Arg Pro Gln Lys Ile Tyr His Phe
               165
                                   170
Phe Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp Thr His
                                185
                                                    190
Ile Asn Glu Asn Met Val Leu Ala Gly Ala Ile Ser Gly Leu Val Gly
                            200
                                                205
Pro Leu Ser Thr Ile Val Val Ser Tyr Met Cys Ile Leu Cys Ala Ile
                       215
                                           220
Leu Gln İle Gln Ser Arg Glu Val Gln Arg Lys Ala Phe Arg Thr Cys
                   230
                                       235
Phe Ser His Leu Cys Val Ile Gly Leu Val Tyr Gly Thr Ala Ile Ile
                                   250
               245
Met Tyr Val Gly Pro Arg Tyr Gly Asn Pro Lys Glu Gln Lys Lys Tyr
           260
                               265
                                                    270
Leu Leu Phe His Ser Leu Phe Asn Pro Met Leu Asn Pro Leu Ile
                           280
                                                285
Cys Ser Leu Arg Asn Ser Glu Val Lys Asn Thr Leu Lys Arg Val Leu
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Gly Val Glu Arg Ala Leu
<210> 1154
<211> 323
<212> PRT
<213> Unknown (H38g71 protein)
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<221> VARIANT
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Gly Leu Ser Glu Asp Pro Glu Leu Leu Pro Val Leu Ala Leu Leu Ser
                                25
            20
Leu Ser Leu Ser Met Tyr Leu Val Met Val Leu Arg Asn Leu Leu Ser
                           40
Ile Leu Ala Val Ser Ser Asp Ser Pro His Thr Pro Val Tyr Phe Phe
                       55
Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Pro Thr Val
                                        75
                   70
Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser His
                85
Ala Gly Cys Leu Ala Gln Met Ser Phe Leu Val Leu Phe Ala Cys Ile
                                105
                                                    110
Glu Asp Met Leu Leu Thr Val Met Ala Tyr Asp Ser Phe Val Ala Ile
                            120
                                                125
Cys His Pro Leu His Tyr Pro Val Ile Met Asn Pro His Leu Cys Val
                                           140
                       135
Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu
                                        155
His Gly Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu Ile
                                   170
                                                        175
               165
Ser Asn Phe Leu Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys Ser
                                185
                                                    190
           180
Asp Ser Val Thr Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe
                            200
                                                205
       195
Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Xaa Tyr Lys Ile Val
                                           220
                       215
Pro Ser Ile Leu Arg Met Ser Ser Asp Gly Lys Tyr Lys Ala Phe
                   230
                                       235
Thr Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Asp Gly Thr
                                                        255
                245
                                    250
Gly Ile Gly Met Tyr Leu Thr Ser Ala Leu Ser Pro Pro Pro Arg Asn
                                265
           260
Gly Val Ala Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu Asn
                                                285
                            280
Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Arg
                       295
                                            300
Arg Leu Arg Ser Arg Thr Val Glu Ser Pro Xaa Ser Val Pro Ser Phe
                                        315
305
                   310
Phe Leu Cys
<210> 1155
<211> 315
<212> PRT
<213> Unknown (H38g72 protein)
<220>
<223> Synthetic construct
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Met Ala Trp Ser Asn Gln Ser Ala Val Thr Glu Phe Ile Leu Arg Gly

<400> 1155

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Leu Ser Ser Ser Leu Glu Leu Gln Ile Phe Tyr Phe Leu Phe Phe Ser
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Ile Val Tyr Ala Ala Thr Val Leu Gly Asn Leu Leu Ile Val Val Thr
                                               45
                          40
Ile Ala Ser Glu Pro His Leu His Ser Pro Thr Tyr Phe Leu Leu Gly
                                          60
                      55
Asn Leu Ser Phe Ile Asp Met Ser Leu Ala Ser Phe Ala Thr Pro Lys
                                       75
                   70
Met Ile Ala Asp Phe Leu Arg Glu His Lys Ala Ile Ser Phe Glu Gly
               85
Cys Met Thr Gln Met Phe Phe Leu His Leu Leu Gly Gly Ala Glu Ile
                               105
                                                   110
           100
Val Leu Leu Ile Ser Met Ser Phe Asp Arg Tyr Val Ala Ile Cys Lys
                                               125
                           120
Pro Leu His Tyr Leu Thr Ile Met Ser Arg Arg Met Cys Val Gly Leu
                                          140
                       135
Val Ile Leu Ser Trp Ile Val Gly Ile Phe His Ala Leu Ser Gln Leu
                                      155
                   150
Ala Phe Thr Val Asn Leu Pro Phe Cys Gly Pro Asn Glu Val Asp Ser
              165
                                  170
Phe Phe Cys Asp Leu Pro Leu Val Ile Lys Leu Ala Cys Val Asp Thr
                              185
                                                  190
Tyr Ile Leu Gly Val Phe Met Ile Ser Thr Ser Gly Met Ile Ala Leu
                                               205
                           200
Val Cys Phe Ile Leu Leu Val Ile Ser Tyr Thr Ile Ile Leu Val Thr
                                          220
                      215
Val Arg Gln Arg Ser Ser Gly Gly Ser Ser Lys Ala Leu Ser Thr Cys
                  230
                                       235
Ser Ala His Phe Thr Val Val Thr Leu Phe Phe Gly Pro Cys Thr Phe
                                   250
                                                       255
               245
Ile Tyr Val Trp Pro Phe Thr Asn Phe Pro Ile Asp Lys Val Leu Ser
           260
                               265
Val Phe Tyr Thr Ile Tyr Thr Pro Leu Leu Asn Pro Val Ile Tyr Thr
                                               285
                           280
       275
Val Arg Asn Lys Asp Val Lys Tyr Ser Met Arg Lys Leu Ser Ser His
                      295
Ile Phe Lys Ser Arg Lys Thr Asp His Thr Pro
                   310
<210> 1156
<211> 321
<212> PRT
<213> Unknown (H38g73 protein)
<220> -
<223> Synthetic construct
<221> VARIANT
<222> (1)...(321)
<223> Xaa = Any Amino Acid
<400> 1156
Met Lys Lys Tyr Met Glu Arg Thr Asn Xaa Thr Thr Glu Phe Glu Leu
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Ile Leu Ile Ser Leu Xaa Val Leu Ile Ser Xaa Gln Lys Leu Leu Phe
                              25
Val Thr Cys Leu Val Val Tyr Leu Val Thr Leu Leu Gly Asn Arg Ile
                                              45
                           40
Gln Ile Ile Pro Thr Leu Leu Val Ser His Leu Tyr Leu Cys His Gly
```

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Asn Pro Ser Phe Leu Asp Ile Gly Leu Thr Ser Ser Phe Thr Pro Ser
                                        75
                   70
Ile Leu Ile Asn Phe Leu Ser Glu Gly Lys Lys Leu Ser Phe Thr Asp
                                   90
               85
Cys Ile Ile Gln Met Ser Ile Phe Tyr Ser Met Gly Ser Thr Glu Cys
                               105
           100
Val Leu Leu Ala Val Met Ala Tyr Asp Asn Cys Val Val Ile Ser Lys
                                               125
                           120
Phe Leu Arg Tyr Pro Leu Ile Ile Asn Lys Val Asn Lys Ile Lys Lys
                                           140
                       135
Val Leu Cys Val Phe Met Ala Thr Val Ser Tyr Glu Leu Gly Phe Leu
                   150
                                       155
Asn Arg Gln Asn Val Leu Ile Val Thr Tyr Ala Met His Phe Cys Gly
                                   170
                                                       175
               165
Lys His Ile Ile Asn His Phe Tyr Lys Ile Leu Gln Leu Met Ala Leu
                              185
Ala Cys Ile Asp Ile Ser Leu Asn Glu Asn Ile Ile Leu Gly Lys
                           200
       195
Val Asn Phe Ser Phe Thr Leu Leu Leu Pro Phe Gln Phe Phe Ile Phe
                      215
                                           220
Ser Phe Leu Tyr Phe His His Leu Cys Cys Ile Glu Ile Asn Ser Ala
                   230
                                       235
Glu Gly Arg Lys Lys Val Ser Ser Thr Cys Ser Ala His Ile Thr Val
                                   250
               245
Val Ile Val Phe His Arg Thr Ile Leu Phe Met Tyr Ile Lys Ser Thr
                               265
                                                   270
           260
Ser Asn Gly Thr Thr Ser Glu Lys Leu Val Asp Leu Phe Cys Gly Val
                       .. 280
                                               285
       275
Val Met Leu Met Leu Asn Leu Ile Ile Tyr Ser Leu Gly Asn Met Glu
                       295
Val Leu Gly Val Met Lys Lys Leu Ile Ser Met Ser Arg Pro Trp Cys
                                       315
                   310
<210> 1157
<211> 325
<212> PRT
<213> Unknown (H38g74 protein)
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<223> Synthetic construct
<221> VARIANT
<222> (1)...(325)
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His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu
                                   10
1
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser
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                               25
Leu Ser Leu Ser Met Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu
                           40
                                               45
Leu Ser Ile Leu Ala Val Ser Ser Asp Ser Gln Leu His Thr Pro Met
                       55
                                           60
Tyr Phe Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser
```

90

Pro Met Val Pro Lys Met Ile Met Asp Met Gln Ser His Ser Arg Val

Ile Ser His Ala Gly Cys Leu Thr Arg Met Ser Phe Leu Val Leu Phe

.70

75

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105
            100
Ala Cys Ile Glu Asp Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe
                           120
                                               125
Val Ala Ile Cys Arg Pro Leu His Tyr Pro Val Ile Met Asn Pro His
                        135
                                            140
Leu Cys Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp
                   150
                                       155
Ser Gln Leu His Ser Xaa Ile Val Leu Gln Phe Thr Phe Phe Asn Asn
               165
                                   170
Val Glu Ile Ala Asn Phe Val Tyr Glu Pro Ser Gln Leu Leu Asn Leu
            180
                               185
                                                   190
Asp Cys Ser Asp Thr Val Ile Asn Ser Val Phe Ile Tyr Phe Asp Ser
                            200
                                                205
Met Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Xaa Tyr Lys
                        215
                                            220
Ile Val Pro Ser Ile Leu Arg Met Ser Ser Asp Gly Lys Tyr Lys
                    230
                                        235
Ala Phe Ala Thr Cys Gly Ser His Leu Ala Val Cys Xaa Phe Asp
                                    250
Gly Thr Gly Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro
            260
                                265
                                                    270
Arg Asn Gly Val Ala Ala Ser Val Met Tyr Ala Val Val Thr Pro Met
       275
                            280
Leu Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala
                        295
                                            300
Leu Gln Arg Leu Ser Ser Arg Thr Val Glu Ser Pro Xaa Ser Val Pro
                    310
Ser Phe Phe Leu Cys
<210> 1158
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<223> Synthetic construct
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Met Gly Asn Trp Thr Ala Ala Val Thr Glu Phe Val Leu Leu Gly Phe
Ser Leu Ser Arg Glu Val Glu Leu Leu Leu Leu Val Leu Leu Pro
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                               25
Thr Phe Leu Leu Thr Leu Leu Gly Asn Leu Leu Ile Ile Ser Thr Val
                           40
                                                45
Leu Ser Cys Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Cys Asn
                                            60
                       55
Leu Ser Ile Leu Asp Ile Leu Phe Thr Ser Val Ile Ser Pro Lys Val
                                       75
Leu Ala Asn Leu Gly Ser Arg Asp Lys Thr Ile Ser Phe Ala Gly Cys
               85
                                   90
Ile Thr Gln Cys Tyr Phe Tyr Phe Phe Leu Gly Thr Val Glu Phe Leu
           100
                               105
Leu Leu Thr Val Met Ser Tyr Asp Arg Tyr Ala Thr Ile Cys Cys Pro
                           120
Leu Arg Tyr Thr Thr Ile Met Arg Pro Ser Val Cys Ile Gly Thr Val
                       135
                                           140
Val Phe Ser Trp Val Gly Gly Phe Leu Ser Val Leu Phe Pro Thr Ile
                   150
                                       155
Leu Ile Ser Gln Leu Pro Phe Cys Gly Ser Asn Ile Ile Asn His Phe
                                   170
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Phe Cys Asp Ser Gly Pro Leu Leu Ala Leu Ala Cys Ala Asp Thr Thr
                                185
           180
Ala Ile Glu Leu Met Asp Phe Met Leu Ser Ser Met Val Ile Leu Cys
                                                205
                            200
       195
Cys Ile Val Leu Val Ala Tyr Ser Tyr Thr Tyr Ile Ile Leu Thr Ile
                                           220
                       215
Val Arg Ile Pro Ser Ala Ser Gly Arg Lys Lys Ala Phe Asn Thr Cys
                                       235
                   230
Ala Ser His Leu Thr Ile Val Ile Ile Pro Ser Gly Ile Thr Val Phe
                                   250
               245
Ile Tyr Val Thr Pro Ser Gln Lys Glu Tyr Leu Glu Ile Asn Lys Ile
                               265
Pro Leu Val Leu Ser Ser Val Val Thr Pro Phe Leu Asn Pro Phe Ile
       275
                           280
Tyr Thr Leu Arg Asn Asp Thr Val Gln Gly Val Leu Arg Asp Val Trp
                                            300
                        295
Val Arg Val Arg Gly Val Phe Glu Lys Arg Met Arg Ala Val Leu
                                        315
<210> 1159
<211> 313
<212> PRT
<213> Unknown (H38g76 protein)
<223> Synthetic construct
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Met Glu Thr Ala Asn Tyr Thr Lys Val Thr Glu Phe Val Leu Thr Gly
Leu Ser Gln Thr Arg Glu Val Gln Leu Val Leu Phe Val Ile Phe Leu
                               25
Ser Phe Tyr Leu Phe Ile Leu Pro Gly Asn Ile Leu Ile Ile Cys Thr
                            40
Ile Arg Leu Asp Pro His Leu Thr Ser Pro Met Tyr Phe Leu Leu Ala
                                            60
                       55
Asn Leu Ala Leu Leu Asp Ile Trp Tyr Ser Ser Ile Thr Ala Pro Lys
                                       75
                   70
Met Leu Ile Asp Phe Phe Val Glu Arg Lys Ile Ile Ser Phe Gly Gly
                                    90
               85
Cys Ile Ala Gln Leu Phe Phe Leu His Phe Val Gly Ala Ser Glu Met
                               105
                                                    110
Phe Leu Leu Ile Val Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Arg
                                                125
                            120
Pro Leu His Tyr Ala Thr Ile Met Asn Arg Arg Leu Cys Cys Ile Leu
                                            140
                       135
Val Ala Leu Ser Trp Met Gly Gly Phe Ile His Ser Ile Ile Gln Val
                                        155
                   150
Ala Leu Ile Val Arg Leu Pro Phe Cys Gly Pro Asn Glu Leu Asp Ser
               165
                                    170
Tyr Phe Cys Asp Ile Thr Gln Val Val Arg Ile Ala Cys Ala Asn Thr
                               185
                                                    190
           180
Phe Pro Glu Glu Leu Val Met Ile Cys Ser Ser Gly Leu Ile Ser Val
                           200
       195
Val Trp Phe Ile Ala Leu Leu Met Ser Tyr Ala Phe Leu Leu Ala Leu
                       215
                                            220
Leu Lys Lys His Ser Gly Ser Asp Glu Asn Thr Asn Arg Ala Met Ser
                   230
                                       235
Thr Cys Tyr Ser His Ile Thr Ile Val Val Leu Met Phe Gly Pro Ser
               245
                                   250
Ile Tyr Ile Tyr Ala Arg Pro Phe Asp Ser Phe Ser Leu Asp Lys Val
```

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270
            260
                                265
Val Ser Val Phe His Thr Val Ile Phe Pro Leu Leu Asn Pro Ile Ile
                                                285
                            280
Tyr Thr Leu Arg Asn Lys Glu Val Lys Ala Ala Met Arg Lys Val Val
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Thr Lys Tyr Ile Leu Cys Glu Glu Lys
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<210> 1160
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Ser Ile Gln Asn Ile Gln Ile Phe Val Phe Val Phe Leu Phe Cys Asn
                                25
            20
Val Ala Ile Leu Val Gly Asn Phe Leu Ile Leu Ile Ser Ile Xaa Cys
                            40
Ser Pro Leu Phe Asn Gln Pro Met His Tyr Phe Leu Gly Tyr Met Asn
                                            60
Ile Tyr Tyr Thr Ser Cys Val Thr Pro Lys Ile Ile Gly Asp Leu Val
                    70
                                        75
Val Gly Arg Ile Asn Ile Ser Tyr Asp Arg Ile Phe Pro Met His Phe
                                    90
                85
Phe Gly Ile Ile Glu Ile Phe Ile Leu Thr Val Met Ala Phe Asp His
                                105
Tyr Val Ala Ile Cys Lys Pro Pro Arg Tyr Leu Ile Ile Met Asn Arg
                            120
Thr Lys Tyr Asn Thr Leu Ile Ser Val Ala Trp Leu Leu Gly Leu Ile
                        135
                                            140
His Ser Leu Phe Gln Phe Ser Met Lys Ile Trp Leu Pro Phe Cys Gly
                    150
                                        155
Ser Asn Lys Val Asp Asp Xaa Tyr Xaa Asp Ile Phe Pro Leu Leu Lys
                165
                                    170
Val Ala Cys Thr Asp Thr Cys Ile Thr Gly Val Leu Val Val Ala Asn
                                185
            180
Ser Gly Met Phe Ala Leu Val Thr Phe Val Leu Ser Phe Gly Ser Tyr
                            200
       195
Val Ile Ile Leu Phe Pro Leu Lys Asn His Ser Val Glu Gly Arg Cys
                                            220
                        215
Lys Ala Leu Ser Thr Cys Gly Ser His Ile Thr Met Val Ile Phe Phe
                    230
                                        235
Phe Glu Pro Ser Ile Phe Ala Tyr Leu Arg Pro Ser Thr Phe Pro Glu
                                    250
                245
Asp Lys Ile Ser Ala Leu Phe Tyr Thr Ile Ile Ala Pro Met Phe Asn
                                                    270
                                265
His Leu Ile Tyr Asn Leu Arg Asn Thr Glu Met Lys Lys Ala Met Arg
                                                285
                            280
Lys Val Trp Tyr Gln Ile Ser Phe Ser Glu Glu Lys Gln Leu Ile Cys
                        295
Pro Thr Xaa Cys Thr Lys Glu Leu Tyr
                    310
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<211> 304
<212> PRT
<213> Unknown (H38g78 protein)
<220>
<223> Synthetic construct
<400> 1161
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               5.
Val Ile Gln Gly Leu Gln Thr Pro Leu Phe Ile Ala Ile Phe Leu Thr
                               25
           20
Tyr Ile Leu Thr Leu Ala Gly Asn Gly Leu Ile Ile Ala Thr Val Trp
                           40
                                                45
Ala Glu Pro Arg Leu Gln Ile Pro Met Tyr Phe Phe Leu Cys Asn Leu
                                           60
Ser Phe Leu Glu Ile Trp Tyr Thr Thr Thr Val Ile Pro Lys Leu Leu
                   70
                                       75
Gly Thr Phe Val Val Ala Arg Thr Val Ile Cys Met Ser Cys Cys Leu
                                                       95
                                    90
               85
Leu Gln Ala Phe Phe His Phe Phe Val Gly Thr Thr Glu Phe Leu Ile
                               105
          100
Leu Thr Ile Met Ser Phe Asp Arg Tyr Leu Thr Ile Cys Asn Pro Leu
                          120
                                                125
       115
His His Pro Thr Ile Met Thr Ser Lys Leu Cys Leu Gln Leu Ala Leu
                       135
Ser Ser Trp Val Val Gly Phe Thr Ile Val Phe Cys Gln Thr Met Leu
                                       155
                   150
Leu Ile Gln Leu Pro Phe Cys Gly Asn Asn Val Ile Ser His Phe Tyr
                                    170
               165
Cys Asp Val Gly Pro Ser Leu Lys Ala Ala Cys Ile Asp Thr Ser Ile
                                                   190
                               185
           180
Leu Glu Leu Leu Gly Val Ile Ala Thr Ile Leu Val Ile Pro Gly Ser
                           200
                                                205
Leu Leu Phe Asn Met Ile Ser Tyr Ile Tyr Ile Leu Ser Ala Ile Leu
                                            220
                       215
Arg Ile Pro Ser Ala Thr Gly His Gln Lys Thr Phe Ser Thr Cys Ala
                                       235
                   230
Ser His Leu Thr Val Val Ser Leu Leu Tyr Gly Ala Val Leu Phe Met
                                   250
               245
Tyr Leu Arg Pro Thr Ala His Ser Ser Phe Lys Ile Asn Lys Val Val
                                                  270
                               265
Ser Val Leu Asn Thr Ile Leu Thr Pro Leu Leu Asn Pro Phe Ile Tyr
                          280
                                                285
Thr Ile Arg Asn Lys Glu Val Lys Gly Ala Leu Arg Lys Ala Met Thr
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<210> 1162
<211> 321
<212> PRT
<213> Unknown (H38g79 protein)
<220>
<223> Synthetic construct
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Met Thr Ile Leu Leu Asn Ser Ser Leu Gln Arg Ala Thr Phe Phe Leu
                                   10
Thr Gly Phe Gln Gly Leu Glu Gly Leu His Gly Trp Ile Ser Ile Pro
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```
25
Phe Cys Phe Ile Tyr Leu Thr Val Ile Leu Gly Asn Leu Thr Ile Leu
                            40
His Val Ile Cys Thr Asp Ala Thr Leu His Gly Pro Met Tyr Tyr Phe
                       55
Leu Gly Met Leu Ala Val Thr Asp Leu Gly Leu Cys Leu Ser Thr Leu
                                        75
Pro Thr Val Leu Gly Ile Phe Trp Phe Asp Thr Arg Glu Ile Gly Ile
                                   90
Pro Ala Cys Phe Thr Gln Leu Phe Phe Ile His Thr Leu Ser Ser Met
                               105
Glu Ser Ser Val Leu Leu Ser Met Ser Ile Asp Arg Tyr Val Ala Val
                                               125
                           120
Cys Asn Pro Leu His Asp Ser Thr Val Leu Thr Pro Ala Cys Ile Val
                                           140
                       135
Lys Met Gly Leu Ser Ser Val Leu Arg Ser Ala Leu Leu Ile Leu Pro
                   150
                                       155
Leu Pro Phe Leu Leu Lys Arg Phe Gln Tyr Cys His Ser His Val Leu
                                    170
               165
Ala His Ala Tyr Cys Leu His Leu Glu Ile Met Lys Leu Ala Cys Ser
                               185
           180
Ser Ile Ile Val Asn His Ile Tyr Gly Leu Phe Val Val Ala Cys Thr
                           200
                                                205
       195
Val Gly Val Asp Ser Leu Leu Ile Phe Leu Ser Tyr Ala Leu Ile Leu
                        215
                                            220
Arg Thr Val Leu Ser Ile Ala Ser His Gln Glu Arg Leu Arg Ala Leu
                                        235
                    230
Asn Thr Cys Val Ser His Ile Cys Ala Val Leu Leu Phe Tyr Ile Pro
                                    250
                245
Met Ile Gly Leu Ser Leu Val His Arg Phe Gly Glu His Leu Pro Arg
                               265
Val Val His Leu Phe Met Ser Tyr Val Tyr Leu Leu Val Pro Pro Leu
                                               285
                            280
Met Asn Pro Ile Ile Tyr Ser Ile Lys Thr Lys Gln Ile Arg Gln Arg
                       295
                                           300
Ile Ile Lys Lys Phe Gln Phe Ile Lys Ser Leu Arg Cys Phe Trp Lys
                                        315
                    310
Asp
<210> 1163
<211> 323
<212> PRT
<213> Unknown (H38g80 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(323)
<223> Xaa = Any Amino Acid
<400> 1163
Met Gly Asn His Thr Thr Val Thr Glu Phe Val Leu Leu Gly Leu Ser
                                   10
Glu Thr Cys Glu Leu Gln Met Leu Ile Phe Leu Gly Leu Leu Leu Thr
                               25
Tyr Leu Leu Thr Leu Leu Gly Asn Leu Val Ile Val Val Ile Thr Leu
                            40
Met Asp Arg Arg Leu His Thr Thr Met Tyr Tyr Phe Leu Arg Asn Phe
```

```
Ala Val Pro Glu Ile Trp Phe Thr Ser Val Ile Phe Pro Lys Val Leu
                    70
Ala Asn Ile Leu Thr Gly Tyr Lys Thr Ile Ser Leu Pro Gly Cys Phe
                                    90
                85
Leu Gln Ser Leu Leu Tyr Phe Phe Leu Gly Thr Thr Glu Phe Phe Leu
                                105
Leu Ala Val Met Ser Phe Asp Arg Tyr Val Ala Val Cys Asn Pro Leu
                            120
                                                125
His Tyr Ala Thr Ile Met Ser Lys Arg Val Cys Val Gln Leu Val Leu
                        135
                                            140
Cys Xaa Trp Met Thr Gly Phe Leu Leu Ile Ile Pro Ser Phe Leu
                   150
                                        155
Val Leu Gln Gln Pro Phe Cys Gly Pro Asn Ile Ile Asn His Phe Phe
                                    170
               165
Cys Asp Asn Phe Pro Leu Leu Lys Leu Ile Cys Ala Asp Met Thr Leu
            180
                                185
Ile Glu Leu Leu Gly Phe Val Ile Ala Asn Val Ser Leu Leu Gly Thr
        195
                            200
                                                205
Leu Ser Met Thr Ala Thr Cys Tyr Gly His Ile Leu His Ala Ile Leu
                       215
                                            220
His Ile Pro Ser Ala Lys Glu Lys Gln Lys Ala Phe Ser Ala Cys Ser
                   230
                                       235
Ser His Ile Ile Val Val Ser Leu Phe Tyr Gly Ser Cys Ile Phe Met
                                   250
                245
Tyr Ile Gln Ser Gly Lys Ser Asp Gln Lys Glu Asp Arg Asn Lys Val
                               265
                                                   270
           260
Ala Ala Leu Leu Asn Thr Val Val Thr Leu Met Leu Asn Pro Phe Ile
                           280
       275
Tyr Thr Leu Arg Asn Lys Gln Val Lys Gln Val Phe Arg Gln Gln Val
                       295
                                            300
Ser Lys Leu Leu Ile Xaa Ser Cys Val Lys Lys Leu Lys Leu Ser
                   310
                                        315
Ile Pro Arg
```

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<210> 1164
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## <400> 1164

Glu Ile Lys Ile Ala Asn Asn Thr Val Val Thr Glu Phe Ile Leu Leu 10 Gly Leu Thr Gln Ser Gln Asp Ile Gln Leu Leu Val Phe Val Leu Ile 25 Leu Ile Phe Tyr Leu Ile Ile Leu Pro Gly Asn Phe Leu Ile Ile Phe 40 45 Thr Ile Lys Ser Asp Pro Gly Leu Thr Ala Pro Leu Tyr Phe Phe Leu 55 60 Gly Asn Leu Ala Phe Leu Asp Ala Ser Tyr Ser Phe Ile Val Ala Pro 70 75 Arg Met Leu Val Asp Phe Leu Ser Ala Lys Asn Val Ile Ser Tyr Arg 90 Gly Cys Ile Thr Gln Leu Phe Phe Leu His Phe Leu Gly Gly Gly Glu 105 110 Gly Leu Leu Val Ile Val Ala Phe Asp Arg Tyr Ile Ala Ile Cys 120 125 Arg Pro Leu His Tyr Ser Thr Leu Met Asn Pro Arg Ala Cys Tyr Ala

<sup>&</sup>lt;211> 317

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Unknown (H38g81 protein)

<sup>&</sup>lt;220>

<sup>&</sup>lt;223> Synthetic construct

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Met Met Leu Ala Leu Trp Leu Gly Gly Phe Val His Ser Ile Ile Gln
                                       155
                  150
Val Val Leu Ile Leu Arg Leu Pro Phe Cys Gly Pro Asn Gln Leu Asp
                                   170
               165
Asn Phe Phe Cys Asp Val Pro Gln Val Ile Lys Leu Ala Cys Thr Asp
                               185
           180
Thr Phe Val Val Glu Leu Leu Met Val Phe Asn Ser Gly Leu Met Thr
                                               205
                           200
Leu Leu Cys Phe Leu Gly Leu Leu Ala Ser Tyr Ala Val Ile Leu Cys
                                            220
                       215
His Val Arg Lys Ala Ala Ser Glu Leu Lys Asn Lys Ala Met Ser Thr
                                       235
                   230
Cys Thr Thr His Val Ile Ile Ile Leu Leu Met Phe Gly Pro Ala Ile
                                   250
Phe Ile Tyr Met His Pro Phe Arg Ala Leu Pro Ala Asp Lys Val Val
                                                   270
                               265
Ser Phe Phe His Thr Val Ile Phe Pro Leu Met Asn Pro Met Ile Tyr
                                               285
                           280
Thr Leu Arg Asn Gln Glu Val Lys Thr Ser Met Lys Arg Leu Leu Ser
                       295
Arg His Val Val Cys Gln Val Asp Phe Ile Ile Arg Asn
                   310
<210> 1165
<211> 287
<212> PRT
<213> Unknown (H38g82 protein)
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<223> Synthetic construct
<221> VARIANT
<222> (1)...(287)
<223> Xaa = Any Amino Acid
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Val Ile Arg Asn Gln Thr Met Val Thr Glu Phe Thr Leu Val Ser Leu
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Pro Ala Val Gln Glu Leu Gln Ile Trp Leu Cys Val Leu Leu Trp Leu
                                25
Val His Met Leu Thr Ile Thr Gly Asn Leu Phe Val Ile Phe Leu Thr
                            40
Trp Thr Asp Asn Cys Leu Gln Thr Pro Met Asp Leu Phe Leu Glu Lys
                        55
Lys Val Ile Ser Phe Ser Gly Cys Ile Thr Gln Ile Tyr Phe Tyr Phe
                    70
Phe Leu Gly Thr Val Ala Phe Ile Pro Leu Ala Val Thr Ser Phe Lys
                                    90
                85
His Cys Met Ala Thr Cys Asp Pro Leu Cys Ser Thr Ile Ile Ala Lys
                                105
Ser Arg Ala Cys Leu Leu Leu Ala Leu Gly Cys Trp Met Gly Thr Phe
                                                125
                            120
Leu Ala Val Leu Arg Leu Thr Ile Val Val Ser Arg Leu Pro Asp Cys
                                            140
                        135
Thr Glu Lys Ile Ser Pro Phe Phe Cys Asp Ile Ala Ser Leu Leu Gln
                                       155
                    150
Val Ala Cys Ile Asp Ile His Phe Ile Glu Met Ile Ser Phe Leu Xaa
                                   170
               165
Ser Ser Leu Met Val Leu Thr Ser Leu Val Leu Asn Ala Thr Ser Tyr
                                185
```

```
Ala Tyr Ile Ile Ser Thr Leu Leu Cys Ile Pro Ser Ala Gln Gly Cys
                           200
Gln Glu Ala Phe Ser Thr Cys Ala Ser His Ile Thr Ile Ile Phe Ile
                       215
                                          220
Ala Cys Arg Asn Ser Ile Ser Thr Cys Val Arg Pro Asn Pro Arg Tyr
                                      235
                  230
Xaa Leu Asp Phe Asp Lys Val Thr Ala Ile Leu Thr Ile Val Val Thr
               245
                                   250
Ser Phe Leu Asn Pro Arg Ile Tyr Ser Leu Arg Xaa Arg Lys Tyr Glu
                                                  270
                           265
           260
Gly Ser Thr Ile Cys Thr Ile Leu Ser Pro His Ser Lys Gly Thr
                           280
<210> 1166
<211> 307
<212> PRT
<213> Unknown (H38g83 protein)
<223> Synthetic construct
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Met Glu Ser Glu Asn Arg Thr Val Ile Arg Glu Phe Ile Leu Leu Gly
                               10
      5
Leu Thr Gln Ser Gln Asp Ile Gln Leu Leu Val Phe Val Leu Val Leu
Ile Phe Tyr Phe Ile Ile Leu Pro Gly Asn Phe Leu Ile Ile Phe Thr
                                               45
       35
                           40
Ile Lys Ser Asp Pro Gly Leu Thr Ala Pro Leu Tyr Phe Phe Leu Gly
                       55
Asn Leu Ala Phe Leu Asp Ala Ser Tyr Ser Phe Thr Val Ala Pro Arg
                   70
                                      75
Met Leu Val Asp Phe Leu Ser Ala Lys Lys Ile Ile Ser Tyr Arg Gly
                                   90
               85
Cys Ile Thr Gln Leu Phe Phe Leu His Phe Leu Gly Gly Gly Glu Gly
           100
                               105
                                                   110
Leu Leu Leu Val Val Met Ala Phe Asp Arg Tyr Ile Ala Ile Cys Arg
                                              125
                           120
       115
Pro Leu His Tyr Pro Thr Val Met Asn Pro Arg Thr Cys Tyr Ala Met
                      135
                                          140
Met Leu Ala Leu Trp Leu Gly Gly Phe Val His Ser Ile Ile Gln Val
                  150
                                      155
Val Leu Ile Leu Arg Leu Pro Phe Cys Gly Pro Asn Gln Leu Asp Asn
              165
                                  170
Phe Phe Cys Asp Val Pro Gln Val Ile Lys Leu Ala Cys Thr Asp Thr
                                                   190
           180
                               185
Phe Val Val Glu Leu Leu Met Val Phe Asn Ser Gly Leu Met Thr Leu
                                               205
                           200
Leu Cys Phe Leu Gly Leu Leu Ala Ser Tyr Ala Val Ile Leu Cys Arg
                                          220
                       215
   210
Ile Arg Gly Ser Ser Ser Glu Ala Lys Asn Lys Ala Met Ser Thr Cys
                                      235
                   230
Ile Thr His Ile Ile Val Ile Phe Phe Met Phe Gly Pro Gly Ile Phe
               245
                                   250
Ile Tyr Thr Arg Pro Phe Arg Ala Phe Pro Ala Asp Lys Val Val Ser
                                                  270
                              265
           260
Leu Phe His Thr Val Ile Phe Pro Leu Leu Asn Pro Val Ile Tyr Thr
                           280
                                              285
Leu Arg Asn Gln Glu Val Lys Ala Ser Met Lys Lys Val Phe Asn Lys
                       295
                                          300
```

His Ile Ala

```
Ile Trp Lys Asp Pro His Leu His Ile Pro Met Tyr Leu Phe Leu Gly
                       55
                                60
Ser Leu Ala Phe Val Asp Ala Ser Leu Ser Ser Thr Val Thr Pro Lys
                   70
                                      75
Met Leu Ile Asn Phe Leu Ala Lys Ser Lys Met Ile Ser Leu Ser Glu
                                  90
Cys Met Val Gln Phe Phe Ser Leu Val Thr Thr Val Thr Thr Glu Cys
                           105
Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
                                              125
                           120
Ala Leu Leu Tyr Pro Val Ile Met Thr Asn Glu Leu Cys Ile Gln Leu
                       135
                                           140
Leu Val Leu Ser Phe Ile Gly Gly Leu Leu His Ala Leu Ile His Glu
               150
                                      155
Ala Phe Ser Phe Arg Leu Thr Phe Cys Asn Ser Asn Ile Ile Gln His
              165
                                   170
Phe Tyr Cys Asp Ile Ile Pro Leu Leu Lys Ile Ser Cys Thr Asp Ser
                               185
Ser Ile Asn Phe Leu Met Val Phe Ile Phe Ala Gly Ser Val Gln Val
                                               205
       195
                           200
Phe Thr Ile Gly Thr Ile Leu Ile Ser Tyr Thr Ile Ile Leu Phe Thr
                                           220
Ile Leu Glu Lys Lys Ser Ile Lys Gly Ile Arg Lys Ala Val Ser Thr
                   230
                                       235
Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr Tyr Gly Pro Leu Thr
                                   250
               245
Phe Lys Tyr Leu Gly Ser Ala Ser Pro Gln Ala Asp Asp Gln Asp Met
           260
                               265
Met Glu Ser Leu Phe Tyr Thr Val Ile Val Pro Leu Leu Asn Pro Met
                           280
Ile Tyr Ser Leu Arg Asn Lys Gln Val Ile Ala Ser Phe Thr Lys Met
Phe Lys Ser Asn Val
305
<210> 1207
<211> 308
<212> PRT
<213> Unknown (H38g124 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(308)
<223> Xaa = Any Amino Acid
<400> 1207
Met Ala Asn Arg Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
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Glu Asn Pro Lys Met Gln Lys Ile Ile Phe Val Val Phe Val Ile Tyr
                               25
           20
Ile Thr Thr Met Ile Gly Asn Val Leu Ile Val Val Thr Ile Thr Ala
                           40
Ser Pro Ser Leu Arg Ser Pro Met Xaa Phe Phe Leu Ala Tyr Leu Ser
                       55
Phe Ile Asp Ala Cys Tyr Ser Ser Val Asn Val Ser Lys Leu Ile Thr
                   70
                                      75
Asp Ser Leu Tyr Glu Asn Lys Thr Ile Leu Leu Asn Gly Cys Met Thr
                                   90
Gln Val Phe Gly Glu His Phe Phe Arg Gly Val Glu Val Ile Leu Leu
```

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305
<210> 1167
<211> 309
<212> PRT
<213> Unknown (H38g84 protein)
<220>
<223> Synthetic construct
<400> 1167
Met Glu Asn Gln Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
                                   10
Glu Asn Leu Glu Leu Trp Lys Ile Phe Ser Ala Val Phe Leu Val Met
                               25
           20
Tyr Val Ala Thr Val Leu Glu Asn Leu Leu Ile Val Val Thr Ile Ile
                           40
Thr Ser Gln Ser Leu Arg Ser Pro Met Tyr Phe Phe Leu Thr Phe Leu
                                            60
                       55
Ser Leu Leu Asp Val Met Phe Ser Ser Val Val Ala Pro Lys Val Ile
                  70
                                       75
Val Asp Thr Leu Ser Lys Ser Thr Thr Ile Ser Leu Lys Gly Cys Leu
                                   90
Thr Gln Leu Phe Val Glu His Phe Phe Gly Gly Val Gly Ile Ile Leu
                               105
                                                   110
Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
                                               125
                           120
. 115
His Tyr Thr Ile Ile Met Ser Pro Arg Val Cys Cys Leu Met Val Gly
                       135
                                            140
Gly Ala Trp Val Gly Gly Phe Met His Ala Met Ile Gln Leu Leu Phe
                                       155
                   150
Met Tyr Gln Ile Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Ile
                                   170
               165
Cys Asp Leu Phe Gln Leu Leu Thr Leu Ala Cys Thr Asp Thr His Ile
                               185
                                                   190
Leu Gly Leu Leu Val Thr Leu Asn Ser Gly Met Met Cys Val Ala Ile
                           200
Phe Leu Ile Leu Ile Ala Ser Tyr Thr Val Ile Leu Cys Ser Leu Lys
                       215
                                            220
Ser Tyr Ser Ser Lys Gly Arg His Lys Ala Leu Ser Thr Cys Ser Ser
                                       235
                  230
His Leu Thr Val Val Val Leu Phe Phe Val Pro Cys Ile Phe Leu Tyr
               245
                                   250
Met Arg Pro Val Val Thr His Pro Ile Asp Lys Ala Met Ala Val Ser
                               265
Asp Ser Ile Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
                           280
                                               285
Asn Ala Glu Val Lys Ser Ala Met Lys Lys Leu Trp Met Lys Trp Glu
                       295
                                            300
Ala Leu Ala Gly Lys
305
<210> 1168
<211> 311
<212> PRT
<213> Unknown (H38g85 protein)
<223> Synthetic construct
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<221> VARIANT

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Ile Phe Phe Tyr Gly Tyr His His Leu Ile Tyr Xaa Tyr Ser Val Leu
          20
Thr Cys Val Pro Phe Gln Phe Thr Tyr Ser His Ile Val Lys Cys Xaa
                           40
       35
Leu Gln Gly Asn Leu Pro Gln Thr Gln Thr Ile Asn Val Thr Ser Glu
                       55
Thr Ile Trp Ile Lys Ile Ile His Asp Phe Leu His Glu Pro Lys Thr
                                      75
                   70
Ile Ser Phe Glu Gly Cys Met Ala Gln Ile Phe Leu Phe His Val Phe
                                  90
Ala Gly Gly Glu Met Val Leu Leu Val Ala Met Ala Tyr Asp Ile Tyr
                                                 110
                       105
Val Ala Ile Cys Lys Pro Leu His Tyr Ala Thr Ile Met Asn Leu Cys
                                              125
                       120
Thr Cys Thr Gly Leu Val Val Gly Ser Trp Val Thr Gly Val Met His
                                           140
                      135
Ser Leu Ser Gln Leu Ala Phe Thr Val Ser Leu Pro Phe Cys Gly Pro
                                      155
            150
Asn Ile Val Asp Ser Tyr Tyr Cys Asp Leu Thr Leu Val Ile Lys Leu
                                  170
               165
Ala Cys Thr Asp Thr Tyr Ile Pro Glu Ala Leu Met Leu Leu Asp Ser
                                                  190
                               185
          180
Gly Leu Met Gly Val Thr Ser Phe Leu Leu Leu Leu Ile Ser Tyr Thr
                                              205
                           200
Val Ile Leu Ile Thr Val Gln Arg Pro Ser Ser Ala Gly Met Ala Lys
                                          220
                       215
Ala Arg Ser Thr Leu Thr Ala His Val Thr Val Val Thr Leu Phe Phe
                                       235
                   230
Gly Pro Cys Ile Phe Ile Tyr Ala Trp Pro Phe Ser Asn Leu Pro Val
                                  250
               245
Asp Asn Ile Leu Ser Val Phe Ser Thr Val Phe Thr Pro Ile Leu Asn
                              265
     · 260
Pro Leu Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Ser Ala Ile His
                          280
                                  285
Asn Leu Lys Thr Gln Tyr Val Thr Ser Arg Leu Ser Ser Gln Leu Ser
                       295
Leu Ile Gly Leu Asp Leu Leu
                   310
<210> 1169
<211> 210
<212> PRT
<213> Unknown (H38g86 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(210)
<223> Xaa = Any Amino Acid
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Leu Gly Asn Val Ser Thr Glu Thr Thr Phe Ile Phe Val Cys Phe Thr
                                  10
                - 5
Asn Gly Gln Gln Phe Gln Pro Val Cys Phe Ser Ser Phe Xaa Val Leu
```

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25
Gly His Ser Val Leu Gly Leu Ser Ser Leu Leu Asn Ile His Gly Glu
                           40
Leu Val Phe Ser Leu Phe Ser Phe Val Phe Val Phe Gln Met Ser Tyr
                       55
                                           60
Ser Phe Val Ile Leu Ile Lys Met Ile Met Asn Ser Ile Ser Glu Arg
                                       75
Tyr Ile Thr Thr Asn Leu Lys Cys Lys Thr Ser Ala Leu Val Phe Ile
                                   90
Cys Phe Ala Ile Ser Glu Thr Leu Ile Leu Leu Ala Trp Gly His Cys
                               105
           100
Gly Ile Cys Val Pro Gln Val Cys Ser Leu Thr Met Leu Gly Leu His
                                               125
                           120
Gly Val Gly Ile Asp Gly Val Met Ala His Pro Glu Ala Met Val Ser
                                           140
                       135
Leu Ser Phe Cys Asp Arg Ser Ile Ile Asn His Cys Val Trp His Thr
                                       155
                   150
Ser Phe His Gln Thr Leu Leu Arg Ala Pro Ala Ser Gln Ala Gly Asp
                                   170
               165
Phe Val Val Ile Ala Xaa Xaa Leu Ile Ile Phe Ile Ser Asp Ile Leu
                                                   190
                              185
          180
Ile Leu Ser Thr Ile Leu His Phe Leu Phe Pro Glu Ala Asn Ser Lys
                           200
Ala Phe
    210
<210> 1170
<211> 274
<212> PRT
<213> Unknown (H38g87 protein)
<220>
<223> Synthetic construct
<400> 1170
Met Gly Asn Leu Gly Met Ile Met Val Ile Arg Ile Asn Pro Lys Leu
                                   10
                5
His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ser Phe Val Asp Phe
          20
                                25
Cys Tyr Ser Thr Thr Ile Thr Pro Lys Leu Leu Glu Asn Leu Val Val
                            40
Glu Asp Arg Ile Ile Ser Phe Thr Gly Cys Ile Met Gln Phe Phe
                                           60
                        55
Ala Cys Ile Phe Val Val Thr Glu Thr Phe Met Leu Ala Ala Met Ala
                   70
Tyr Asp Arg Phe Val Ala Val Cys Asn Pro Leu Leu Tyr Thr Val Ala
                                   90
Met Ser Gln Arg Leu Cys Ser Leu Leu Val Ala Ala Ser Tyr Ser Trp
                                                   110
                            105
Ser Leu Val Cys Ser Leu Thr Tyr Thr Tyr Phe Leu Leu Thr Leu Ser
                           120
Phe Cys Arg Thr Asn Phe Ile Asn Asn Phe Val Cys Glu His Ala Ala
                       135
                                           140
Ile Val Ala Val Ser Cys Ser Asp Pro Tyr Met Ser Gln Lys Val Ile
                    150
                                       155
Leu Val Ser Ala Thr Phe Asn Glu Ile Ser Ser Leu Val Ile Ile Leu
                165
                                   170
Thr Ser Tyr Ala Phe Ile Phe Ile Thr Val Met Lys Met Pro Ser Thr
                               185
Gly Gly Arg Lys Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Ala
                           200
                                               205
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Ile Thr Ile Phe His Gly Thr Ile Leu Phe Leu Tyr Cys Val Pro Asn 215 220 Ser Lys Ser Ser Trp Leu Met Val Lys Val Ala Ser Val Phe Tyr Thr 235 230 Val Val Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys 245 250 Asp Val Lys Glu Thr Val Arg Lys Leu Val Ile Thr Lys Leu Leu Cys His Lys <210> 1171 <211> 348 <212> PRT <213> Unknown (H38g88 protein) <220> <223> Synthetic construct <221> VARIANT <222> (1)...(348) <223> Xaa = Any Amino Acid <400> 1171 Met Thr Asn Ser Ser Val Lys Gly Asp Phe Ile Leu Val Gly Phe Ser 5 His Gln Pro His Leu Glu Lys Ile Leu Phe Val Ala Val Leu Ile Ser Tyr Leu Leu Thr Leu Val Gly Asn Thr Val Ile Ile Leu Ile Cys Ser 40 Val Asp Pro Lys Leu Lys Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ser Leu Val Asp Ile Cys Phe Thr Thr Ser Ile Val Pro Gln Leu Leu 70 75 Trp Asn Leu Lys Gly Pro Asp Lys Thr Ile Thr Phe Leu Gly Cys Val 90 Ile Gln Leu Tyr Ile Ser Leu Ala Leu Gly Ser Thr Glu Cys Val Leu 105 Leu Ala Val Met Ala Phe Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu 120 125 His Tyr Thr Ala Val Met Asn Pro Gln Leu Cys Gln Val Leu Ala Gly 135 140 Val Ala Trp Leu Ser Gly Val Gly Asn Thr Leu Ile Gln Gly Thr Val 155 150 Thr Leu Trp Leu Pro Arg Cys Gly His Arg Leu Leu Gln His Phe Phe ---170 **1.7.**5 165 Cys Glu Val Pro Ser Met Ile Lys Leu Ala Cys Val Asp Ile His Asp 185 Asn Glu Val Gln Leu Phe Val Ala Ser Leu Val Leu Leu Leu Pro 200 205 Leu Val Leu Ile Leu Leu Ser Tyr Gly His Ile Ala Lys Val Val Ile 215 220 Arg Ile Lys Ser Val Gln Ala Trp Cys Lys Gly Leu Gly Thr Cys Gly 230 235 Ser His Leu Ile Val Val Ser Leu Phe Cys Gly Thr Ile Thr Ala Val 245 250 Tyr Ile Gln Ser Asn Ser Ser Tyr Ala His Ala His Gly Lys Phe Ile 260 265 Ser Leu Phe Tyr Thr Val Val Thr Pro Thr Leu Asn Pro Leu Ile Tyr 280

Thr Leu Arg Asn Asn Asp Val Lys Gly Ala Leu Arg Leu Phe Asn Arg

```
290
                         295
                                            300
 Asp Leu Gly Thr Xaa Lys Met Lys Gln Ser Thr Gln Arg Ser Thr Phe
                   310
                                315
 Phe Thr Lys Gln Leu Xaa Arg Ser Tyr Leu Tyr Asn Phe Ser Leu Lys
                 325
                             330
 Asn Phe Ala Ser Leu Xaa Arg Lys Arg Cys Asn Leu
             340
 <210> 1172
 <211> 319
 <212> PRT
 <213> Unknown (H38g89 protein)
 <220>
 <223> Synthetic construct
 <400> 1172
 Met Asp Lys Ser Asn Ser Ser Val Val Ser Glu Phe Val Leu Leu Gly
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 Leu Cys Ser Ser Gln Lys Leu Gln Leu Phe Tyr Phe Cys Phe Phe Ser
         20
                                25
 Val Leu Tyr Thr Val Ile Val Leu Gly Asn Leu Leu Ile Ile Leu Thr
        35
                            40
 Val Thr Ser Asp Thr Ser Leu His Ser Pro Met Tyr Phe Leu Leu Gly
                        55
                                           60
 Asn Leu Ser Phe Val Asp Ile Cys Gln Ala Ser Phe Ala Thr Pro Lys
                    70
                                        75
 Met Ile Ala Asp Phe Leu Ser Ala His Glu Thr Ile Ser Phe Ser Gly
                85
                                    90
 Cys Ile Ala Gln Ile Phe Phe Ile His Leu Phe Thr Gly Gly Glu Met
            100
                                105
 Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
                            120
                                                125
 Pro Leu Tyr Tyr Val Val Ile Met Ser Arg Arg Thr Cys Thr Val Leu
                        135
                                            140
Val Met Ile Ser Trp Ala Val Ser Leu Val His Thr Leu Ser Gln Leu
                    150
                                        155
Ser Phe Thr Val Asn Leu Pro Phe Cys Gly Pro Asn Val Val Asp Ser
                165
                                   170
Phe Phe Cys Asp Leu Pro Arg Val Thr Lys Leu Ala Cys Leu Asp Ser
            180
                               185
Tyr Ile Ile Glu Ile Leu Ile Val Val Asn Ser Gly Ile Leu Ser Leu
                            200
                                                205
Ser Thr Phe Ser Leu Leu Val Ser Ser Tyr Ile Ile Ile Leu Val Thr
                       215
                                           220
Val Trp Leu Lys Ser Ser Ala Ala Met Ala Lys Ala Phe Ser Thr Leu
                   230
                                       235
Ala Ser His Ile Ala Val Val Ile Leu Phe Phe Gly Pro Cys Ile Phe
                245
                                   250
Ile Tyr Val Trp Pro Phe Thr Ile Ser Pro Leu Asp Lys Phe Leu Ala
            260
                               265
                                                   270
Ile Phe Tyr Thr Val Phe Thr Pro Val Leu Asn Pro Ile Ile Tyr Thr
                           280
                                               285
Leu Arg Asn Arg Asp Met Lys Ala Ala Val Arg Lys Ile Val Asn His
                      295
Tyr Leu Arg Pro Arg Arg Ile Ser Glu Met Ser Leu Val Val Arg
                   310
<210> 1173
<211> 312
<212> PRT
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<213> Unknown (H38g90 protein)
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Leu Thr Asp Gln Pro Gly Leu Gln Ile Pro Ala Phe Phe Leu Phe Leu
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Gly Phe Tyr Ala Val Thr Val Val Gly Asn Leu Gly Leu Ile Ile Leu
                                              45
                           40
Ile Gly Leu Asn Ser Arg Leu His Ile Pro Met Tyr Phe Phe Pro Phe
                                          60
                      55
Asn Leu Ser Phe Ile Asp Phe Ser Tyr Ser Thr Thr Leu Ala Pro Lys
                                       75
                   70
Met Leu Met Ser Phe Val Ser Glu Asn Ile Ile Ser Tyr Ala Gly Cys
                                   90
               85
Met Thr Gln Leu Phe Phe Phe Cys Phe Phe Val Phe Ser Glu Ser Tyr
           100
                               105
Ile Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Gly Ile Cys Asn Pro
                           120
                                              125
Leu Leu Tyr Thr Val Thr Met Ser Pro Gln Met Cys Leu Leu Leu
                                           140
Leu Gly Val Tyr Gly Met Gly Tyr Phe Gly Ala Val Ala His Met Gly
                                       155
                   150
Asn Ile Met Phe Met Ser Phe Cys Gly Asp Asn Leu Val Asn His Tyr
                                   170
               165
Met Cys Asp Ile Leu Pro Leu Leu Glu Leu Ser Cys Asn Ser Ser Tyr
                               185
Ile Asn Leu Leu Val Val Phe Ile Ile Val Thr Val Gly Ile Gly Val
                           200
                                              205
Pro Ile Val Thr Ile Phe Leu Ser Tyr Gly Phe Ile Leu Ser Ser Ile
                       215
                                           220
Leu His Ile Ser Ser Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys
                   230
                                       235
Ser Ser His Ile Ile Val Val Ser Leu Phe Phe Gly Ser Gly Ala Phe
                                   250
               245
Met Tyr Leu Lys Pro Pro Ser Ile Leu Pro Leu Asp Gln Gly Lys Val
                               265
           260
Ser Ser Ile Phe Cys Thr Ala Val Val Pro Met Phe Asn Pro Leu Ile
            285
Tyr Ser Leu Arg Asn Lys Asp Val Lys Val Ala Leu Arg Arg Thr Phe
                       295
Cys Arg Lys Leu Val Ser Xaa Lys
                   310
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<211> 357
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Met Asn Trp Val Asn Lys Ser Val Pro Gln Glu Phe Ile Leu Leu Val
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Phe Ser Asp Gln Pro Trp Leu Glu Ile Pro Pro Phe Val Met Phe Leu
                              25
Phe Ser Tyr Ile Leu Thr Ile Phe Gly Asn Leu Thr Ile Ile Leu Val
                                          45
                          40
Ser His Val Asp Phe Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                      55
Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Thr Ser Thr Val Pro Gln
                 70
                                     75
Met Leu Val Asn Ile Cys Asn Thr Arg Lys Val Ile Ser Tyr Gly Gly
                                90
Cys Val Ala Gln Leu Phe Ile Phe Leu Ala Leu Gly Ser Thr Glu Cys
                             105
                                                 110
Leu Leu Ala Val Met Cys Phe Asp Arg Phe Val Ala Ile Cys Arg
                          120
                                             125
Pro Leu His Tyr Ser Ile Ile Met His Gln Arg Leu Cys Phe Gln Leu
                                         140
                      135
Ala Ala Ala Ser Trp Ile Ser Gly Phe Ser Asn Ser Val Leu Gln Ser
                                     155
                  150
Thr Trp Thr Leu Lys Met Pro Leu Cys Gly His Lys Glu Val Asp His
                                 170
             165
Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Asp Thr
                             185
                                                190
          180
Thr Ala Asn Glu Ala Glu Leu Phe Phe Ile Ser Val Leu Phe Leu Leu
                                             205
                          200
Ile Pro Val Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Gln Ala
                     215
                                         220
Val Leu Arg Ile Gln Ser Ala Glu Gly Gln Arg Lys Ala Phe Gly Thr
                                     235
                  230
Cys Gly Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Ile
                                  250
               245
Ser Met Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Arg Gly Lys
                              265
Met Val Ser Leu Phe Cys Gly Ile Ile Ala Pro Met Leu Asn Pro Leu
                                   285
                          280
Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu Ala Phe Lys Arg Leu
        . 295
                                         300
Val Ala Lys Ser Leu Leu Asn Gln Glu Ile Arg Asn Met Gln Met Ile
                 310
                                     315
Ser Phe Ala Lys Asp Thr Val Leu Thr Tyr Leu Thr Asn Phe Ser Ala
                       330 335
              325
Ser Cys Pro Ile Phe Val Ile Thr Ile Glu Asn Tyr Cys Asn Leu Pro
          340 345
Gln Arg Lys Phe Pro
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<211> 320
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<213> Unknown (H38g92 protein)
<223> Synthetic construct
<221> VARIANT
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<223> Xaa = Any Amino Acid
<400> 1175
His Thr Glu Pro Arg Asn Leu Thr Gly Ala Xaa Glu Leu Leu Leu
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Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Ile Leu Ala Gly Leu Ser
                         25
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Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ile Ser Leu
                            40
Ala Val Ser Ser Asp Ser His Leu His Thr Pro Met Cys Phe Phe Leu
                       55
Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr Val Pro
                                       75
                   70
Lys Met Ile Val Asp Met Arg Ser His Ser Gly Val Ile Ser Tyr Ala
                                   90
               85
Asp Cys Leu Thr Arg Met Ser Phe Leu Val Leu Phe Ala Cys Val Glu
                               105
                                                   110
           100
Asp Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala Ile Cys
                            120
                                               125
       115
Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys Val Phe
                                           140
                       135
Leu Val Ser Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu Arg
                                       155
                   150
Ser Trp Ile Val Leu Gln Phe Thr Phe Phe Lys Asn Val Glu Ile Ser
                                   170
               165
Asn Phe Val Cys Asp Pro Ser Gln Pro Leu Lys Leu Ala Cys Ser Asp
                               185
           180
Ser Ile Ile Asp Ser Met Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly
                                                205
                            200
Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro
                                            220
                        215
Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Xaa Tyr Lys Ala Phe Ser
                    230
                                        235
Ala Cys Gly Ser His Leu Pro Val Val Cys Leu Phe Tyr Gly Thr Gly
                                    250
                245
Ile Gly Val Tyr Leu Thr Ser Ala Val Ala Pro Pro Leu Arg Asn Gly
                                265
            260
Val Val Ala Ser Val Thr Tyr Ala Val Val Thr Pro Met Leu Asn Pro
                                               285
                           280
        275
Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Trp Arg
                       295
                                           300
Leu Arg Ser Arg Thr Val Lys Ser His Asp Leu Phe His Pro Phe Ser
                                        315
                    310
<210> 1176
<211> 313
<212> PRT
<213> Unknown (H38g93 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1) ... (313)
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Met Glu Gly Phe Asn Cys Ser Arg Val Ser Glu Phe Met Leu Leu Gly
                                    10
Leu Thr Asp Ser Pro Glu Leu Gln Arg Phe Phe Phe Val Val Phe Ser
            20
Val Phe Tyr Leu Met Thr Met Leu Gly Asn Cys Leu Ile Leu Leu Thr
                            40
Val Leu Ser Thr Ser His Leu His Ser Pro Met Tyr Phe Leu Leu Ser
                       55
Asn Leu Ser Leu Ile Asp Met Cys Leu Ser Ser Phe Ala Thr Pro Lys
```

```
75
Met Ile Met Asp Phe Phe Ala Leu Arg Lys Thr Ile Ser Phe Glu Gly
                                   90
               85
Cys Ile Ser Gln Ile Phe Phe Leu His Leu Phe Thr Gly Thr Glu Ile
                               105
Val Leu Leu Ile Ser Met Ser Phe Asp Arg Tyr Ile Ala Ile Cys Lys
                                               125
                           120
Pro Leu His Tyr Ser Thr Ile Met Ser Gln Arg Val Cys Val Glu Leu
                                           140
                      135
Val Ala Val Ser Trp Thr Val Gly Phe Leu His Thr Met Ser Gln Leu
                   150
                                       155
Ala Phe Thr Leu Tyr Leu Pro Phe Cys Gly Pro Asn Val Glu Ser Phe
                                   170
               165
Phe Cys Asp Leu Pro Leu Val Ile Gln Leu Ala Cys Met Asp Ile Tyr
                            . 185
           180
Val Leu Gly Ile Phe Met Ile Ser Thr Ser Gly Val Ile Ala Leu Ile
                           200
      195
Ser Phe Leu Leu Leu Thr Ser Tyr Ile Ile Val Leu Ile Thr Val
                      215
                                           220
Arg Asp Tyr Ser Ser Thr Gly Ser Ser Lys Ala Leu Ser Thr Cys Thr
                                       235
                   230
Ala His Phe Ile Val Val Leu Met Phe Phe Gly Pro Cys Ile Phe Ile
                                   250
               245
Tyr Val Trp Pro Ser Thr Asn Phe Leu Val Asp Lys Ile Leu Ser Val
                               265
                                                    270
Phe Tyr Thr Ile Phe Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr Leu
                                               285
                           280
Arg Asn Gln Glu Val Lys Thr Ala Met Lys Lys Xaa Leu Asn Ile Gln
                       295
                                           300
Tyr Phe Ser Leu Gly Lys Thr Ala Pro
                   310
<210> 1177
<211> 338
<212> PRT
<213> Unknown (H38g94 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(338)
<223> Xaa = Any Amino Acid
<400> 1177
Met Ile Leu Pro Ala Ser Phe Ser Xaa Gly Thr Met Glu Thr Ser Ser
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Val Ser Ser Gly Thr Asp Phe Ile Leu Leu Gly Phe Ser Asp Arg Pro
                               25
Gln Leu Glu His Ile Ile Ser Val Val Val Phe Ile Ile Tyr Ile Val
                                               45
                           40
Thr Leu Val Gly Asn Thr Thr Ile Ile Leu Val Ser Tyr Leu Asp Thr
                       55
                                           60
Gln Leu His Thr Phe Met Tyr Phe Phe Leu Ser Asn Leu Ser Phe Leu
                   70
                                       75
Asp Leu Cys Tyr Thr Thr Ser Ile Ile Pro Gln Met Leu Ala Asn Gln
               85
                                   90
Trp Gly Pro Lys Lys Ser Ile Thr Tyr Gly Gly Cys Val Leu Gln Phe
                               105
Phe Phe Val Leu Asp Leu Gly Ala Thr Glu Cys Leu Leu Ala Val
                           120
       115
```

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Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Gln Pro Leu His Tyr Thr
                   135
Leu Lys Cys Thr Leu Ser Phe Ala Thr Ala Trp Leu Ser Gly Leu Ala
                                      155
                  150
Ser Ala Leu Ile Val Cys Ser Leu Thr Leu Lys Leu Pro Arg Cys Gly
                                  170
               165
His Arg Glu Val Asp Asn Phe Phe Cys Glu Met Pro Ala Leu Ile Lys
                               185
Met Ala Cys Val Tyr Ser Lys Val Ile Glu Ile Val Val Phe Ala Phe
                           200
       195
Gly Val Val Phe Leu Phe Val Pro Leu Ser Leu Ile Leu Ile Ser Tyr
                215
                                          220
Gly Val Ile Thr Gln Ala Val Met Arg Ile Lys Ser Ala Thr Arg Leu
                  230
                                      235
Gln Lys Ile Leu Asn Thr Cys Gly Ser His Leu Thr Val Val Ile Leu
               245
                                   250
Phe Tyr Gly Thr Ile Ile Tyr Ile Tyr Met Lys Pro Gln Asn Thr Ile
                               265
Ser Gln Asp Glu Gly Lys Phe Ser Leu Phe Tyr Thr Ile Ile Thr Pro
       275
                           280
                                               285
Ser Leu Asn Leu Pro Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Ser
                       295
                                           300
Ala Leu Lys Arg Ile Leu Trp Met Lys Lys Ser Ser Ala Glu Xaa Met
                   310
                                       315
Asn Xaa Met Glu Lys Ser Arg Met Xaa Ser Thr Lys Glu Ile Leu Ala
                                   330
               325
Phe Ile
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- <210> 1178
- <211> 314
- <212> PRT
- <213> Unknown (H38g95 protein)
- <220>
- <223> Synthetic construct
- <221> VARIANT
- <222> (1)...(314)
- <223> Xaa = Any Amino Acid

## <400> 1178

Met His Gln Gly Asn Xaa Thr Thr Val Ser Lys Phe Phe Leu Leu Gly 10 Ile Thr Thr Lys Pro Lys Glu Gln Gln Phe Ile Phe Met Leu Phe Leu 25 -Cys Thr Tyr Leu Val Thr Met Val Arg Asn Leu Leu Ile Ile Leu Ala 40 45 Val Val Ser Asp Ala His Leu His Gly Pro Ile Tyr Phe Phe Leu Ala 55 -60 Asn Leu Ser Phe Thr Asn Val Cys Ile Thr Thr Thr Thr Val Pro Lys 70 75 Ile Leu Ala Asp Ile Gln Ser Gln Asn Ser Thr Ile Ser Phe Glu Gly 85 90 Cys Pro Ala Gln Met Xaa Phe Xaa Ile Phe Leu Val Asp Leu Asp Asn 105 Phe Leu Leu Val Asp Met Ala Tyr Asn Xaa Tyr Ile Ala Ile Cys His 120 Pro Leu His Tyr Thr Val Val Val Leu Ser Pro Lys Asn Cys Ala Leu 135 140 Leu Val Val Thr Pro Trp Val Ile Ser Asn Leu Val Ser Ile Leu His

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150
                                       155
Leu Ser Leu Leu Ser His Leu Thr Phe Cys Ile Ser His Ile Phe Tyr
                                  170
               165
Asp Leu Glu Pro Ile Leu Gly Leu Ala Cys Ser Asp Thr Gln Ile Asn
           180
                               185
Asn Leu Ile Ile Thr Ala Ile Gly Glu Val Val Ile Phe Ile Pro Phe
                           200
                                               205
Thr Cys His Ile Leu Val Ser Tyr Gly Leu Ile Gly Ser Thr Met Leu
                                           220
                       215
Gly Val Pro Ser Ala Lys Gly Lys Xaa Lys Thr Phe Ser Thr Cys Gly
                                       235
                   230
Ser His Leu Ser Val Val Pro Gln Val Phe Tyr Gly Phe Ile Ile Gly
              245
                                   250
Val Tyr Phe Leu Ser Phe Phe Ala Tyr Ser Ala Glu Arg Asp Glu Val
                                                   270
                               265
           260
Ala Ala Ile Met Tyr Thr Thr Val Thr His Leu Ile Lys Ser Phe Ile
                                               285
                           280
Cys Ser Leu Arg Asn Glu Asp Met Lys Gly Ala Leu Arg Arg Pro Leu
                      295
                                           300
Ser Arg Gln Gly Phe Ser Gly Val Val Ser
                   310
<210> 1179
<211> 314
<212> PRT
<213> Unknown (H38g96 protein)
<220>
<223> Synthetic construct
<400> 1179
Met Met Lys Lys Asn Gln Thr Met Ile Ser Glu Phe Leu Leu Gly
                                   10
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Leu Pro Ile Gln Pro Glu Gln Arg Asn Leu Phe Tyr Ala Leu Phe Leu
                               25
Ala Val Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Val Ile Val Leu
                           40
Ile Arg Leu Asp Ser His Leu His Met Pro Met Tyr Leu Cys Leu Ser
                                           60
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys
                   70
                                       75
Leu Leu Gln Asn Met Gln Ser Gln Asn Pro Ser Ile Pro Phe Ala Asp
              85
                                   90
Cys Leu Ala Gln Met Tyr Phe His Leu Phe Tyr Gly Val Leu Glu Ser
                              105
          100
Phe Leu Leu Val Val Met Ala Tyr His Cys Tyr Val Ala Ile Cys Phe
                          120
                                               125
Pro Leu His Tyr Thr Thr Ile Met Ser Pro Lys Cys Cys Leu Gly Leu
                                          140
                      135
Leu Thr Leu Ser Trp Leu Leu Thr Thr Ala His Ala Thr Leu His Thr
                                       155
                   150
Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Glu Asn Val Ile Pro His
               165
                                   170
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Phe Phe Cys Asp Thr Ser Thr Leu Leu Lys Leu Ala Cys Ser Asn Thr 185

Gln Val Asn Gly Trp Val Met Phe Phe Met Gly Gly Leu Ile Leu Val 200 Ile Pro Phe Leu Leu Ile Met Ser Cys Ala Arg Ile Val Ser Thr

Ile Leu Arg Val Pro Ser Thr Gly Gly Ile Gln Lys Ala Phe Ser Thr

215

230

180

235

220

190

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Cys Gly Pro His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile
                                   250
               245
Gly Leu Tyr Leu Cys Pro Leu Thr Asn His Asn Thr Val Lys Asp Thr
                               265
Val Met Ala Val Met Tyr Thr Gly Val Thr His Met Leu Asn Pro Phe
                           280
Ile Tyr Ser Leu Arg Asn Arg Asp Met Arg Gly Asn Pro Gly Gln Ser
                    295
Leu Gln His Lys Glu Asn Phe Phe Val Phe
                   310
<210> 1180
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Met Ala Ala Glu Asn Ser Ser Ser Val Thr Glu Phe Ile Leu Ala Gly
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Leu Ile His Gln Pro Gly Leu Gln Val Pro Val Phe Phe Leu Phe Leu
                                25
Gly Phe Tyr Ala Val Thr Val Val Gly Asn Leu Gly Leu Ile Ile Leu
                                               45
                            40
Ile Gly Leu Asn Ser Arg Leu His Ile Pro Met Tyr Phe Phe Pro Phe
                       55
Asn Leu Ser Leu Val Asp Phe Ser Phe Ser Thr Thr Ile Ile Pro Lys
                                       75
                   70
Met Leu Met Ser Phe Val Ser Arg Lys Asn Ile Ile Ser Phe Thr Gly
                                   90
               85
Cys Met Ser Gln Phe Phe Phe Cys Phe Phe Val Phe Ser Glu Ser
                                                   110
                               105
Phe Ile Leu Ser Ala Met Val Xaa Asp Arg Tyr Val Gly Ile Cys Asn
                                               125
                           120
Pro Leu Leu Tyr Thr Ile Thr Met Ser Pro Gln Val Cys Leu Leu Leu
                                           140
                       135
Leu Leu Gly Val Tyr Gly Met Gly Val Phe Gly Ala Val Ala His Thr
                   150
                                       155
Gly Asn Ile Val Phe Leu Thr Phe Cys Ala Asp Asn Leu Val Asn His
               165 ·
                                   170
Tyr Met Cys Asp Ile Leu Pro Leu Leu Glu Leu Ser Cys Asn Gly Ser
                                185
                                                   190
           180
Tyr Ile Asn Val Leu Val Ile Phe Ile Val Val Thr Val Gly Ile Gly
       195
                            200
                                                205
Val Pro Ile Val Ala Val Phe Ile Ser Tyr Gly Phe Ile Leu Ser Ser
                        215
                                            220
Ile Leu Arg Val Ser Ser Ala Glu Gly Arg Ser Lys Ala Phe Ser Ser
                    230
                                        235
Cys Ser Ser Tyr Ile Ile Ala Val Ser Leu Phe Phe Gly Ser Gly Ala
                                   250
                245
Phe Thr Tyr Leu Lys Pro Pro Ser Ile Leu Pro Leu Asp Gln Gly Lys
                                265
Val Ser Ser Leu Phe Tyr Thr Thr Val Val Pro Met Phe Asn Pro Leu
                           280
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Leu Ala Leu Lys Arg Thr
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290
                         295
                                             300
 Phe Ser Arg Ile Ser Phe Ser Glu Lys Asn Phe Arg Asn Arg Lys Glu
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                                        315
 Ile Leu Gly Phe Phe Xaa Asn Gln Ile Ala Phe
                 325
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 <211> 314
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 <213> Unknown (H38g98 protein)
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 Met Ser Asn Glu Asp Met Glu Gln Asp Asn Thr Thr Leu Leu Thr Glu
 Phe Val Leu Thr Gly Leu Thr Tyr Gln Pro Glu Trp Lys Met Pro Leu
                                25
 Phe Leu Val Phe Leu Val Ile Tyr Leu Ile Thr Ile Val Trp Asn Leu
                            40
 Gly Leu Ile Ala Leu Ile Trp Asn Asp Pro Gln Leu His Ile Pro Met
                        55
                                             60
 Tyr Phe Phe Leu Gly Ser Leu Ala Phe Val Asp Ala Trp Ile Ser Ser
                    70
                                         75
 Thr Val Thr Pro Lys Met Leu Val Asn Phe Leu Ala Lys Asn Arg Met
                85
                                     90
Ile Ser Leu Ser Glu Cys Met Ile Gln Phe Phe Ser Phe Ala Phe Gly
            100
                                105
Gly Thr Thr Glu Cys Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr
                            120
                                                 125
Val Ala Ile Cys Lys Pro Leu Leu Tyr Pro Val Ile Met Asn Asn Ser
                        135
                                            140
Leu Cys Ile Arg Leu Leu Ala Phe Ser Phe Leu Gly Gly Phe Leu His
                    150
                                        155
Ala Leu Ile His Glu Val Leu Ile Phe Arg Leu Thr Phe Cys Asn Ser
                165
                                    170
Asn Ile Ile His His Phe Tyr Cys Asp Ile Ile Pro Leu Phe Met Ile
                                185
Ser Cys Thr Asp Pro Ser Ile Asn Phe Leu Met Val Phe Ile Leu Ser
        195
                            200
                                                205
Gly Ser Ile Gln Val Phe Thr Ile Val Thr Val Leu Asn Ser Tyr Thr
                        215
                                            220
Phe Ala Leu Phe Thr Ile Leu Lys Lys Lys Ser Val Arg Gly Val Arg
                    230
                                       235
Lys Ala Phe Ser Thr Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr
                                    250
Tyr Gly Pro Leu Ile Phe Met Tyr Leu Arg Pro Ala Ser Pro Gln Ala
                               265
Asp Asp Gln Asp Met Ile Asp Ser Val Phe Tyr Thr Ile Ile Ile Pro
                           280
Leu Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Gln Val Ile Asp
                        295
                                            300
Ser Phe Thr Lys Met Val Lys Arg Asn Val
<210> 1182
<211> 313
<212> PRT
<213> Unknown (H38g99 protein)
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<220>
<223> Synthetic construct
<400> 1182
Met Glu Gly Lys Asn Leu Thr Ser Ile Ser Glu Cys Phe Leu Leu Gly
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Phe Ser Glu Gln Leu Glu Glu Gln Lys Pro Leu Phe Gly Ser Phe Leu
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Phe Met Tyr Leu Val Thr Val Ala Gly Asn Leu Leu Ile Ile Leu Val
                           40
Ile Ile Thr Asp Thr Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ala
                      55
                                          60
Asn Leu Ser Leu Ala Asp Ala Cys Phe Val Ser Thr Thr Val Pro Lys
                                      75
                   70
Met Leu Ala Asn Ile Gln Ile Gln Ser Gln Ala Ile Ser Tyr Ser Gly
                                   90
              85
Cys Leu Leu Gln Leu Tyr Phe Phe Met Leu Phe Val Met Leu Glu Ala
                            105
      100
Phe Leu Leu Ala Val Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys His
                          120
                                               125
Pro Leu His Tyr Ile Leu Ile Met Ser Pro Gly Leu Cys Ile Phe Leu
                       135
                                           140
Val Ser Ala Ser Trp Ile Met Asn Ala Leu His Ser Leu Leu His Thr
                150
                                       155
Leu Leu Met Asn Ser Leu Ser Phe Cys Ala Asn His Glu Ile Pro His
                                   170
                                                       175
               165
Phe Phe Cys Asp Ile Asn Pro Leu Leu Ser Leu Ser Cys Thr Asp Pro
           180
                               185
Phe Thr Asn Glu Leu Val Ile Phe Ile Thr Gly Gly Leu Thr Gly Leu
       195
                           200
Ile Cys Val Leu Cys Leu Ile Ile Ser Tyr Thr Asn Val Phe Ser Thr
                                          220
                       215
Ile Leu Lys Ile Pro Ser Ala Gln Gly Lys Arg Lys Ala Phe Ser Thr
                                       235
                   230
Cys Ser Ser His Leu Ser Val Val Ser Leu Phe Phe Gly Thr Ser Phe
                                   250
Cys Val Asp Phe Ser Ser Pro Ser Thr His Ser Ala Gln Lys Asp Thr
                               265
                                                  270
Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
             280
                                              285
       275
Ile Tyr Ser Leu Arg Asn Gln Glu Ile Lys Ser Ser Leu Arg Lys Leu
                      295
Ile Trp Val Arg Lys Ile His Ser Pro
                   310
<210> 1183
<211> 310
<212> PRT
<213> Unknown (H38g100 protein)
<220>
<223> Synthetic construct
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<222> (1)...(310)
<223> Xaa = Any Amino Acid
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Met Glu Glu Glu Asn Ala Thr Leu Leu Thr Glu Phe Val Leu Thr Gly
Leu Leu Tyr Gln Pro Gln Trp Lys Ile Pro Leu Phe Leu Thr Phe Leu
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25
 Val Ile Tyr Leu Ile Thr Ile Met Gly Asn Leu Gly Leu Ile Ala Val
                             40
 Ile Trp Lys Asp Pro His Leu Gln Ile Pro Met Tyr Leu Leu Gly
                                             60
 Asn Leu Ala Phe Val Asp Ala Trp Ile Ser Ser Thr Val Thr Pro Lys
                     70
                                         75
 Met Leu Asn Asn Phe Leu Ala Lys Ser Lys Met Val Ser Leu Pro Glu
                85
                                     90
 Ser Lys Ile Gln Phe Phe Ser Phe Ala Ile Ser Val Thr Thr Glu Cys
            100
                                105
 Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
                            120
 Pro Leu Leu Tyr Pro Ala Ile Met Thr Asn Gly Leu Cys Ile Arg Leu
                        135
                                             140
 Leu Gly Gly Leu Leu His Ala Leu Ile His Glu Gly Phe Leu Phe Arg
                    150
                                        155
 Leu Thr Phe Cys Asn Ser Asn Val Val His His Ile Tyr Cys Asp Ile
               165
                                    170
 Ile Pro Leu Ser Lys Ile Ser Cys Thr Asp Ser Ser Ile Asn Phe Leu
            180
                                185
 Met Val Phe Ile Phe Ser Gly Ser Ile Gln Val Phe Thr Ile Gly Thr
                            200
                                                205
 Gly Leu Ile Ser Tyr Thr Phe Val Leu Phe Thr Ile Leu Lys Lys
                        215
                                            220
 Ser Val Lys Gly Ile Arg Lys Ala Phe Ser Thr Cys Gly Ala His Leu
                    230
                                        235
Leu Ser Val Ser Leu Tyr His Gly Pro Leu Asp Phe Met Tyr Met Gly
                245
                                    250
Ser Ala Ser Pro Gln Ala Asp Asp Glu Asp Met Met Glu Ser Leu Phe
                                265
                                                    270
Tyr Thr Val Ile Val Pro Leu Leu Asn Pro Met Thr Tyr Ser Leu Arg
       275
                            280
                                                285
Asn Lys Gln Val Ile Ala Ser Phe Thr Lys Met Phe Lys Arg Asn Asn
                        295
Ile Xaa Ile Ser Tyr Ser
<210> 1184
<211> 231
<212> PRT
<213> Unknown (H38g101 protein)
<220>
<223> Synthetic construct
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<222> (1)...(231)
<223> Xaa = Any Amino Acid
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Phe Cys Leu Phe Pro Ala Thr Val Ser Lys Ala Val Val Lys Phe Leu
1
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Ala Glu Thr Ile Ser Phe Ser Tyr Tyr Val Ile Gln Met Leu Val Phe
           20
                               25
Leu Phe Phe Val Thr Thr Glu Cys Asn Leu Leu Ala Ser Leu Gly Lys
 " 35
                           40
                                               45
Asp Ile Tyr Met Pro Ile Arg Gln Pro Met Leu Tyr Pro Val Thr Met
                       55
Ser Gln Val Cys Cys Ile Gln Leu Val Ala Ser Cys Tyr Gly His Gly
                                       75
```

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Val Ile His Thr Met Phe Leu Gly Gly Ser Ile Ser Ile Phe Ala Phe
                                    90
                85
Cys Lys Ser Gln Thr Ile Ile Ser Phe Phe Gly Asp Ser Phe Pro Leu
                                105
            100
Leu Val Leu Ser Cys Ser Asp Thr Tyr Ile Met Asn Ser Leu Phe Phe
                           120
                                               125
Phe Thr Gly Cys Phe Ile Trp Met Ser Ser Xaa Pro Val Ile Leu Val
                       135
                                           140
Ser His Met Phe Ile Ile Val Thr Phe Leu Arg Ile Phe Ser Val Val
                   150
                                       155
Val Glu Ser Lys Gly Phe Leu Ala Phe Ser Ser His Leu Thr Ala Ile
                                    170
               165
Ile Leu Phe Tyr Gly Asp Ile Met Ser Leu Tyr Met Xaa His Ser Ser
                               185
Asn Tyr Phe Leu Asn Gln Asp Gln Thr Val Ser Ile Phe Tyr Met Val
                         200
Arg Ile Leu Leu Ser Pro Ile Ile Tyr Cys Leu Ile Lys Met Gln
                       215
Val Ile Cys Phe Leu Glu Asn
<210> 1185
<211> 216
<212> PRT
<213> Unknown (H38g102 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(216)
<223> Xaa = Any Amino Acid
<400> 1185
Leu Phe Phe Phe Val Xaa His Ser Ile Leu Thr Xaa Xaa Glu Gly Val
Lys Glu Ile Trp Tyr Phe Gln Glu Phe Leu Thr Tyr Pro Arg His Arg
                                25
Xaa Leu Leu Phe Val Ser Ser Cys Met Tyr Tyr Ser Ser Arg Ile Phe
                            40
                                               45
Leu Arg Arg Thr Val Asn Ile Leu Phe Leu Leu Lys Val Ile Ser Leu
                       55
                                            60
Leu Cys Tyr Gly Ser Lys Leu Ser Leu Phe Ile Phe Val Val Thr Ala
                   70
                                        75
Glu Phe Xaa Leu Leu Ala Ser Arg Ile Cys His Cys Tyr Ile Ile Ile
                                    90
               85
Cys Asn Pro Phe Ser Thr Gln Phe Ser His Xaa Lys Leu Leu Ile Ser
           100
                                105
Ile Leu Thr Ala His Tyr Asn Lys Arg Val Cys Ile Ser Ile Thr Thr
                            120
Ser Asn Thr Met Ser Xaa Leu Phe Phe Gly Arg Ser Asn Val Val Asn
                                            140
                        135
Asn Phe Ser Asp Leu Leu Leu Leu Leu Asp Leu Ser Cys Thr Phe Val
                    150
                                        155
Ser Phe Xaa Ser Pro Ser Gln Leu Pro Asp His Ser Pro Gly Pro His
                165
                                    170
Asn Phe Ile Ile Val Val Asn Ile Lys Ile Xaa Leu Ala Glu Gly Lys
                               185
                                                   190
           180
His Lys Asp Phe Ser Ile Cys Pro Leu Xaa Phe Ala Thr Val Ser Asn
                           200
Phe Leu Met Ala His Ile His Ile
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215 210 <210> 1186 <211> 312 <212> PRT <213> Unknown (H38g103 protein) <220> <223> Synthetic construct <221> VARIANT <222> (1)...(312) <223> Xaa = Any Amino Acid <400> 1186 Phe Met Glu Asn Arg Asn Ile Val Thr Val Phe Ile Leu Leu Gly Leu 10 5 Ser Gln Asn Lys Asn Ile Glu Val Phe Trp Phe Val Leu Phe Val Phe 20 25 Cys Tyr Ile Ala Ile Trp Met Glu Asn Phe Ile Ile Met Ile Ser Ile 40 45 Met Tyr Ile Xaa Leu Ile Asp Gln Pro Met Tyr Phe Phe Leu Asn Tyr 55 60 Leu Ala Leu Ser Asp Leu Cys Tyr Ile Ser Thr Val Ala Pro Lys Leu 75 70 Met Ile Asp Leu Leu Thr Glu Arg Lys Ile Val Ser Tyr Asn Asn Cys 90 Met Ile Gln Leu Phe Ile Thr His Phe Leu Gly Asp Ile Glu Ile Phe 105 100 110 Ile Leu Lys Ala Met Ala Tyr Asp His Tyr Ile Ala Ile Cys Lys His 120 Leu His Tyr Thr Ile Ile Thr Thr Lys Gln Ser Cys Asn Thr Ile Ile 135 140 Ile Ala Cys Trp Thr Gly Gly Phe Ile His Ser Ala Ser Gln Phe Leu · 150 155 Leu Thr Ile Phe Leu Pro Phe Cys Gly Leu Asn Glu Ile Asp Gln Tyr 165 170 Phe Cys Tyr Val Tyr Pro Leu Leu Lys Leu Ala Arg Ile Asp Ile Tyr 180 185 190 Arg Ile Gly Phe Leu Val Ile Val Asn Ser Gly Leu Ile Ser Leu Leu 200 195 Ala Phe Val Ile Leu Met Val Ser Tyr Tyr Leu Ile Leu Ser Thr Ile 220 215 Arg Val Tyr Ser Ala Glu Ser His Thr Lys Ala Leu Ser Thr Cys Ser 230 235 Ser His Ile Ile Val Val Val Leu Phe Phe Val Pro Ala Leu Phe Ile 250 245 Tyr Ile Arg Pro Ala Ile Thr Phe Pro Glu Asp Lys Val Phe Val Leu 265 Phe Cys Ala Ile Ile Ala Pro Met Phe Ser Leu Leu Ile Tyr Met Leu 275 280 285 Arg Lys Val Glu Met Lys Asn Ala Val Arg Lys Met Trp Cys His Gln 300 295 Leu Leu Leu Ala Arg Lys Xaa Leu 310 <210> 1187 <211> 308 <212> PRT <213> Unknown (H38g104 protein)

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<220>
<223> Synthetic construct
<400> 1187
Met Ala Met Asp Asn Val Thr Ala Val Phe Gln Phe Leu Leu Ile Gly
                                   10
Ile Ser Asn Tyr Pro Gln Trp Arg Asp Thr Phe Phe Thr Leu Val Leu
                               25
Ile Ile Tyr Leu Ser Thr Leu Leu Gly Asn Gly Phe Met Ile Phe Leu
                                               45
                           40
Ile His Phe Asp Pro Asn Leu His Thr Pro Ile Tyr Phe Phe Leu Ser
                                           60
                       55
Asn Leu Ser Phe Leu Asp Leu Cys Tyr Gly Thr Ala Ser Met Pro Gln
                                       75
                   70
Ala Leu Val His Cys Phe Ser Thr His Pro Tyr Leu Ser Tyr Pro Arg
                                    90
               85
Cys Leu Ala Gln Thr Ser Val Ser Leu Ala Leu Ala Thr Ala Glu Cys
                               105
           100
Leu Leu Leu Ala Ala Met Ala Tyr Asp Arg Val Val Ala Ile Ser Asn
                           120
       115
Pro Leu Arg Tyr Ser Val Val Met Asn Gly Pro Val Cys Val Cys Leu
                                            140
                       135
Val Ala Thr Ser Trp Gly Thr Ser Leu Val Leu Thr Ala Met Leu Ile
                                        155
                   150
Leu Ser Leu Arg Leu His Phe Cys Gly Ala Asn Val Ile Asn His Phe
                                    170
               165
Ala Cys Glu Ile Leu Ser Leu Ile Lys Leu Thr Cys Ser Asp Thr Ser
                                185
            180
Leu Asn Glu Phe Met Ile Leu Ile Thr Ser Ile Phe Thr Leu Leu Leu
                            200
Pro Phe Gly Phe Val Leu Leu Ser Tyr Ile Arg Ile Ala Met Ala Ile
                                            220
                       215
Ile Arg Ile Arg Ser Leu Gln Gly Arg Leu Lys Ala Phe Thr Thr Cys
                                       235
                    230
Gly Ser His Leu Thr Val Val Thr Ile Phe Tyr Gly Ser Ala Ile Ser
                                    250
                245
Met Tyr Met Lys Thr Gln Ser Lys Ser Tyr Pro Asp Gln Asp Lys Phe
                                                    270
                               265
Ile Ser Val Phe Tyr Gly Ala Leu Thr Pro Met Leu Asn Pro Leu Ile
                           280
                                               285
Tyr Ser Leu Arg Lys Lys Asp Val Lys Arg Ala Ile Arg Lys Val Met
                        295
Leu Lys Arg Thr
305
<210> 1188
<211> 324
<212> PRT
<213> Unknown (H38g105 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(324)
<223> Xaa = Any Amino Acid
<400> 1188
Met Glu Ala Glu Asn Leu Thr Glu Leu Ser Glu Phe Leu Leu Gly
                                    10
Leu Ser Met Ile Leu Asn Cys Ser Pro Phe Leu Phe Gly Leu Phe Leu
```

```
25
           20
Ser Met Tyr Leu Val Met Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
                                               45
       35
                           40
Val Ser Ser Asp Ser His Leu His Ser Pro Met Xaa Phe Phe Leu Ser
                       55
Asn Leu Ser Phe Val Asp Thr Cys Phe Ile Cys Thr Thr Val Pro Lys
                                       75
                   70
Met Leu Val Asn Ile Gln Ala Arg Ser Lys Asp Ile Ser Tyr Met Gly
                                   90
               85
Cys Leu Thr Gln Val Tyr Phe Xaa Met Met Phe Ala Gly Met Asp Thr
                               105
Phe Leu Leu Ala Val Ile Ala Tyr Asp Arg Phe Val Ala Ile Cys His
                           120
                                               125
Pro Leu Gln Tyr Met Val Ile Ile Asn Pro His Leu Cys Gly Leu Leu
                                           140
                      135
Val Leu Ala Ser Trp Phe Ile Ile Phe Trp Phe Ser Leu Val His Ile
                                       155
                   150
Leu Leu Met Lys Arg Leu Thr Phe Ser Thr Gly Thr Glu Ile Pro His
                                   170
               165
Phe Phe Cys Glu Leu Ala Gln Val Leu Lys Val Ala Arg Ser Asp Ala
                              185
           180
Leu Leu Ile Asn Ile Val Leu Tyr Val Ala Thr Ala Leu Leu Gly Val
                           200
                                               205
     195
Phe Pro Val Ala Gly Ile Leu Phe Ser Tyr Ser Gln Ile Val Ser Ser
                                       220
                      215
Leu Met Arg Met Ser Ser Thr Glu Gly Lys Tyr Lys Ala Phe Ser Thr
                  230
                                       235
Cys Gly Ser His Leu Cys Val Val Ser Leu Phe Tyr Gly Thr Gly Leu
                                   250
               245
Gly Val Tyr Leu Ser Ser Ala Val Thr His Ser Ser Gln Ser Ser Ser
           260
                               265
Met Ala Ser Val Met Tyr Ala Met Val Thr Pro Met Leu Asn Pro Phe
                                               285
                           280
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Gly Arg Leu
                                          300
                      295
Leu Ser Arg Ala Ala Ser Cys Pro Leu Thr Val His Asn Leu Arg Thr
                                       315
                   310
Lys Arg Met Leu
<210> 1189
<211> 291
<212> PRT
<213> Unknown (H38g106 protein)
<223> Synthetic construct
<400> 1189
Met Glu Gly Phe Asn Tyr Ser Arg Val Ser Glu Phe Met Leu Leu Gly
                                   10
Leu Thr Asp Ser Pro Glu Leu Gln Ile Phe Phe Ser Val Val Phe Ser
                               25
Val Phe Tyr Leu Met Thr Met Leu Gly Asn Cys Leu Ile Leu Leu Thr
```

40

55

70

Val Leu Ser Thr Ser His Leu His Ser Arg Met Tyr Phe Leu Leu Ser

Asn Met Ser Ile Asp Met Cys Leu Ser Ser Phe Ala Thr Pro Lys Met

Ile Met Asp Phe Phe Ala Leu Arg Asn Thr Ile Ser Phe Glu Gly Cys

75

60

35

```
Ile Ser Gln Ile Phe Phe Leu His Leu Phe Asn Gly Thr Glu Ile Val
           100
                          105
Leu Leu Ile Ser Met Ser Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro
                           120
Leu His Tyr Ser Thr Ile Met Ser Gln Arg Val Cys Val Glu Leu Val
                                          140
                       135
Ala Val Ser Cys Trp Thr Val Gly Phe Leu His Thr Met Ser Gln Leu
                                      155
                   150
Val Phe Ala Leu Tyr Leu Pro Phe Cys Val Pro Asn Val Val Asp Ser
                                  170
               165
Phe Phe Cys Asp Leu Pro Leu Val Ile Gln Leu Ala Cys Ile Asp Ile
                              185
           180
Tyr Val Leu Gly Thr Ser Met Ile Ser Thr Ser Gly Val Ile Ala Leu
                           200
       195
Ile Ser Phe Leu Leu Leu Thr Ser Tyr Ile Ile Val Leu Asn Ile
                      215
                                          220
Val Arg Asp Tyr Ser Ser Thr Gly Ser Ser Lys Ala Leu Ser Thr Cys
                   230
                                     235
Thr Ala His Phe Ile Val Val Leu Met Phe Phe Gly Pro Cys Ile Phe
                                  250
Ile Tyr Val Trp Pro Ser Thr Asn Phe Leu Val Asp Lys Ile Leu Ser
                                                   270
                       265
Val Phe Tyr Thr Ile Phe Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr
       275 280
Leu Arg Asn
   290
<210> 1190
<211> 328
<212> PRT
<213> Unknown (H38g107 protein)
<223> Synthetic construct
<400> 1190
Tyr Thr Glu Pro Gln Asn Leu Thr Gly Val Ser Glu Phe Leu Leu
                                  10
1
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Phe
                               25
Leu Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
                           40
                                               45
Ala Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
                       55
Ser Asn Leu Ser Leu Ala Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
                                       75
                   70
Lys Met Ile Val Asp Met Gln Thr His Ser Arg Val Ile Ser Tyr Glu
                                   90
               85
Gly Cys Leu Thr Gln Met Ser Phe Phe Val Leu Phe Ala Cys Met Asp
           100
                               105
                                                   110
Asp Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys
                                               125
                           120
His Pro Leu His Tyr Arg Ile Ile Met Asn Pro Arg Leu Cys Gly Phe
                       135
                                           140
Leu Ile Leu Leu Ser Phe Phe Ile Ser Leu Leu Asp Ser Gln Leu His
                   150
                                       155
Asn Leu Ile Met Leu Gln Leu Thr Cys Phe Lys Asp Val Asp Ile Ser
                                   170
Asn Phe Phe Cys Asp Pro Ser Gln Leu Leu His Leu Arg Cys Ser Asp
                              185
           180
Thr Phe Ile Asn Glu Met Val Ile Tyr Phe Met Gly Ala Ile Phe Gly
```

PCT/US00/27582 WO 01/27158

```
200
       195
Cys Leu Pro Ile Ser Gly Ile Leu Phe Ser Tyr Tyr Lys Ile Val Ser
   210 215
                                         220
Pro Ile Leu Arg Val Pro Thr Ser Asp Gly Lys Tyr Lys Ala Phe Ser
                   230
                                    235
Thr Cys Gly Ser His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly
                                 250
              245
Leu Val Gly Tyr Leu Ser Ser Ala Val Leu Pro Ser Pro Arg Lys Ser
                                                270
                             265
           260
Met Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro
                          280
                                              285
Phe Ile Tyr Ser Leu Arg Asn Lys Asp Ile Gln Ser Ala Leu Cys Arg
                      295
                                         300
Leu His Gly Arg Ile Ile Lys Ser His His Leu His Pro Phe Val Ile
                  310
                                     315
Trp Asp Arg Asn Gly Ser Lys Ile
              325
<210> 1191
<211> 325
<212> PRT
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<213> Unknown (H38g108 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(325)

<223> Xaa = Any Amino Acid

<400> 1191

Leu Thr Met Pro His Leu Ser Asn Thr Thr Ser Glu Phe Pro Ile Phe 5 10 Leu Leu Thr Gly Phe Pro Gly Leu Glu Ala Phe His Ile Trp Ile Ser 20 25 Ile Pro Phe Phe Leu Leu Ser Thr Val Ala Leu Leu Gly Asn Ser Met 40 Ile Leu Leu Val Val Ile Leu Glu Pro Asn Leu His Glu Pro Met Tyr 55 60 Cys Phe Leu Phe Met Leu Ser Ala Ala Asp Leu Gly Leu Thr Leu Ser 75 70 Thr Met Pro Thr Thr Leu Ser Val Leu Trp Phe Ser Ala Arg Glu Ile 85 90 Ile Leu Asn Ala Cys Ile Ile Gln Leu Phe Phe Leu His Ser Ser Gly . 105 Phe Met Glu Ser Ser Val Leu Met Ala Met Ala Phe Asp Arg Phe Val 125 120 115 Ala Ile Cys Arg Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asp Ser Arg 135 140 Ile Leu Lys Ile Gly Val Ala Ile Val Leu Arg Thr Leu Ile Ser Leu 150 155 Ser Pro Ser Leu Phe Leu Ile Lys Arg Leu Ser Phe Cys Lys Val Asn 170 165 Val Leu Ser His Ser Tyr Cys Phe His Pro Asp Ala Leu Lys Val Ala 185 Cys Ser Asp Ser Arg Met Asn Ser Tyr Gly Gly Leu Ala Val Leu Ile 200 Leu Val Thr Gly Val Gly Thr Pro Cys Val Ala Leu Ser Tyr Ile Leu 215 220 Ile Ile His Ser Val Leu Asn Ile Ile Ser Ser Glu Gly Arg Arg Lys 230 235

```
Ala Phe Asp Thr Cys Gly Ser His Ile Gly Ala Val Ala Val Phe Tyr
                           250
               245
Ile Pro Trp Val Val Leu Ser Val Val His Arg Phe Phe His Lys Ala
                               265
           260
Ser Pro Tyr Val His Pro Leu Leu Ser Asn Ile Tyr Phe Leu Gly Pro
                           280
        275
Ser Arg Leu Asn Pro Ile Ile Tyr Ser Val Lys Thr Lys Gln Ile Arg
                      295
Arg Ala Ile Leu Lys Leu Phe Gln Thr Lys Ser Lys Glu Met Xaa Trp
        310
Gly Leu Phe Phe Leu
<210> 1192
<211> 295
<212> PRT
<213> Unknown (H38g109 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(295)
<223> Xaa = Any Amino Acid
<400> 1192
Ile Gln Cys Lys Gly Xaa Xaa Lys Xaa Ile Lys Thr Phe Ser Val Thr
                                   10
Pro Ile Leu Asn Gly Asn Arg Glu Ile Ala Arg Phe Leu Ser Asn Leu
                               25
Ser Leu Ala Gly Ile Gly Phe Pro Ser Thr Ile Val Ser Lys Met Ile
                           40
Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu
                       55
Thr Gln Val Ser Leu Phe Ala Val Phe Gly Cys Met Glu Asp Met Leu
                                       75
Leu Ser Val Met Ala Tyr Asp Arg Phe Val Asp Ile Cys His Pro Leu
                                   90
Asp Tyr Pro Val Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
                               105
Leu Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Asn Trp Ile
                           120
                                               125
Ala Leu Gln Ile Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe
                                           140
                       135
Cys Asp Pro Ser Gln His Pro Thr Leu Ala Cys Cys Asp Thr Phe Thr
                  150 --
                                       -155
Asn Asp Ile Val Met Tyr Phe Leu Ala Ala Ile Phe Gly Phe Leu Pro
               165
                                   170
                                                       175
Ile Ser Gly Thr Phe Ser Ser Tyr Tyr Lys Ile Val Ser Ser Ile Leu
                                                   190
           180
                               185
Arg Val Ser Ser Ser Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly
                                               205
                           200
Ser His Leu Ser Val Val Cys Leu Phe Tyr Gly Thr Gly Phe Gly Gly
                       215
                                           220
Asp Leu Ser Ser Asp Met Ser Ser Tyr Pro Arg Lys Gly Ala Val Ala
                                       235
                   230
Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
               245
                                   250
Ser Arg Asn Arg Glu Ile Lys Ser Ala Leu Arg Gln Leu His Cys Arg
                               265
Ile Val Xaa Ser His Phe Leu Ile Ile Cys Ser Ile Pro Ser Val Val
```

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285
                           280
       275
Xaa Val Arg Lys Gly Ser Lys
    290
<210> 1193
<211> 320
<212> PRT
<213> Unknown (H38g110 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(320)
<223> Xaa = Any Amino Acid
<400> 1193
Tyr Thr Asp Ser Gln Asn Leu Thr Gly Val Leu Glu Phe Leu Phe Leu
                                   10
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Val Gly Leu Phe
                               25
Leu Ser Met Tyr Leu Ile Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
                                               45
                           40
Ala Val Ser Cys Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
                       55
Ser Asn Leu Ser Leu Ala Asp Ile Gly Leu Thr Ser Ala Thr Ile Pro
                   70
                                       75
Lys Met Ile Val Asp Met Gln Ser His Ser Arg Ile Ile Ser Tyr Glu
                                   90
               85
Gly Cys Leu Met Gln Met Tyr Phe Ile Tyr Phe Val Cys Met Asn Asp
           100
                               105
Met Val Leu Thr Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys His
                                              125
                           120
Pro Leu Arg Tyr Pro Val Ile Met Asn Pro His Leu Cys Val Phe Leu
                      135
                                          140
Val Leu Val Ser Phe Ile Leu Ser Leu Leu Asn Ser Gln Leu His Asn
                                       155
                   150
Gln Ile Val Leu Gln Phe Thr Cys Phe Lys Asn Val Glu Ile Phe Asn
                                 170
               165
Phe Phe Cys Glu Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Ser
                               185
          180
Val Ile Asn Asn Ile Phe Met Tyr Leu Asp Ser Val Ile Phe Gly Phe
                                              205
                           200
Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Ser Ser
                                       220
                      215
Ile Leu Arg Ile Pro Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr
                  230
                                       235
Cys Gly Ser His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly Leu
                                   250
               245
                                                       255
Gly Ala Tyr Leu Ser Ser Ala Ala Ser Ser Phe Pro Arg Lys Gly Ala
                               265
                                                   270
Val Thr Ser Val Met Tyr Thr Val Val Ile Pro Met Leu Asn Pro Phe
                                               285
                           280
       275
Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser Ala Leu Trp Arg Leu
                      295
His Ser Arg Thr Val Xaa Ser His Tyr Leu Phe His Pro Phe Cys Ser
                                       315
<210> 1194
<211> 318
<212> PRT
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530

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<213> Unknown (H38g111 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(318)
<223> Xaa = Any Amino Acid
<400> 1194
His Thr Glu Pro Gln Asn Leu Thr Gly Val Ser Glu Phe Leu Leu
                                   10
        5
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Leu Leu Ala Gly Leu Phe
                      . 25
Leu Ser Met Cys Leu Val Thr Met Leu Gly Asn Leu Leu Ile Ile Leu
                           40
Ala Val Ser Pro Asp Ser His Leu His Ile Pro Met Tyr Phe Phe Leu
                       55
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Leu Ala Thr Val Pro
                                       75
65
                   70
Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser His Ala
                                   90
Gly Cys Leu Thr Gln Ile Pro Phe Phe Val Leu Phe Val Cys Ile Asp
                               105
                                                  110
Asp Met Leu Leu Thr Val Met Ala Tyr Asp Xaa Phe Val Ala Ile Cys
                                               125
                           120
His Pro Leu His Tyr Pro Val Ile Met Asn Pro His Leu Cys Val Phe
                                          140
                       135
Leu Val Leu Met Ser Phe Ile Leu Ser Leu Leu Asp Ser Xaa Leu His
                                      155
                   150
Asn Trp Ile Val Gln Phe Thr Cys Phe Lys Asn Val Glu Ile Ser Asn
                                  170
Phe Phe Cys Asp Xaa Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Val
                              185
Ile Ser Asn Ile Phe Ile His Leu Asp Ser Thr Ile Phe Gly Phe Leu
                                               205
                           200
Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro Ser Ile
                                           220
                      215
Leu Arg Ile Pro Leu Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr Cys
                   230
                                       235
Gly Ser His Leu Ala Ile Val Cys Leu Phe Tyr Gly Thr Gly Ile Gly
                                   250
                                                       255
               245
Met Tyr Leu Thr Ser Ala Val Ser Pro Ala Pro Arg Asn Gly Val Val
                                                  270
                               265
Ala Ser Val Leu Tyr Ala Met Val Thr Pro Met Leu Asn Pro Phe Ile
                           285
Cys Ser Leu Arg Asn Arg Gly Ile Gln Ser Ala Leu Trp Arg Leu Cys
                      295
                                          300
Arg Arg Lys Val Xaa Ser His Asp Leu Phe His Pro Phe Ser
                   310
<210> 1195
<211> 350
<212> PRT
<213> Unknown (H38g112 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(350)
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<223> Xaa = Any Amino Acid

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<400> 1195
Met Ser Gln Leu Gly Arg Asp Asn Ile Thr Trp Val Ser Glu Phe Ile
                                   10
1
               5
Leu Met Gly Leu Ser Ser Asp Arg Gln Thr Gln Ala Gly Leu Phe Ile
                               25
Leu Phe Gly Ala Ala Tyr Leu Leu Thr Leu Leu Gly Asn Gly Leu Ile
                           40
                                               45
Leu Leu Ile Trp Leu Asp Val Arg Leu His Leu Pro Met Tyr Phe
                       55
                                           60
Phe Leu Cys Asn Leu Ser Leu Val Asn Ile Cys Tyr Thr Ser Ser Arg
                  70
                                       75
Val Pro Gln Met Leu Val His Leu His Gln Gln Arg Lys Thr Ile Ser
                                   90
               85
Phe Ala Arg Cys Gly Thr Gln Leu Phe Phe Ser Leu Ala Leu Gly Gly
                               105
Thr Glu Phe Leu Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala
                                               125
       115
                           120
Val Cys Asp Pro Leu Cys Tyr Ile Ala Val Met Ser Pro Arg Leu Cys
                      135
                                          140
Met Ala Leu Ala Ala Val Ser Trp Leu Val Gly Leu Ala Asn Ser Ala
                  150
                                      155
Met Glu Thr Ala Leu Thr Met His Leu Pro Thr Cys Gly His Asn Val
                                  170
               165
Leu Asn His Val Ala Cys Glu Thr Leu Ala Leu Val Arg Ser Ala Cys
                               185
                                                   190
           180
Val Asp Ile Thr Phe Asn Gln Val Val Ile Val Ala Ser Ser Val Val
                           200
                                               205
Val Leu Leu Val Pro Cys Cys Leu Val Ser Leu Ser Tyr Thr Leu Ile
                       215
                                           220
Val Val Ala Val Leu Gln Ile His Ser Thr Gln Gly His Arg Lys Ala
                   230
                                       235
Phe Gly Thr Cys Ala Ser His Leu Thr Val Val Ser Ile Ser Tyr Gly
               245
                                   250
                                                       255
Met Ala Leu Phe Thr Tyr Met Gln Pro Arg Ser Met Ala Ser Ala Glu
                               265
           260
Gln Glu Lys Val Met Val Leu Ser Tyr Ala Val Val Thr Pro Met Leu
                           280
                                               285
       275
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Leu
                       295
                                           300
Ser Arg Ala Leu Met Arg Ser Ser Glu Leu Lys His Xaa Arg Val Val
                                      315
                  310
Xaa Val Thr Arg Arg Pro His Ser Glu Asn Ser Gly His Trp Thr Val
              325
                                  330
Leu Ser Ser Ile Thr Cys Val Arg Met Cys Val Tyr Val Cys
                               345
```

<210> 1196

<211> 320

<212> PRT

<213> Unknown (H38g113 protein)

<220>

<223> Synthetic construct

<400> 1196

Met Asp Ser Pro Ser Asn Ala Thr Val Pro Cys Gly Phe Leu Leu Gln 1 5 10 15 15 Gly Phe Ser Glu Phe Pro His Leu Arg Pro Val Leu Phe Leu Leu Leu 20 25 30

```
Leu Gly Val His Leu Ala Thr Leu Gly Gly Asn Leu Leu Ile Leu Val
Ala Val Ala Ser Met Pro Ser Arg Gln Pro Met Leu Leu Phe Leu Cys
Gln Leu Ser Ala Ile Glu Leu Cys Tyr Thr Leu Val Val Pro Arg
Ser Leu Val Asp Leu Ser Ser Arg Gly His Arg Arg Gly Ser Pro Ile
                                   90
Ser Phe Leu Ser Cys Ala Phe Gln Met Gln Met Phe Val Ala Leu Gly
           100
                               105
Gly Ala Glu Cys Phe Leu Leu Ala Ala Met Ala Asn Asp Arg Tyr Val
                           120
Ala Ile Cys His Pro Leu Arg Tyr Arg Ala Val Val Thr Pro Gly Leu
                                           140
                       135
Cys Ala Arg Leu Val Ser Gly Cys Cys Leu Arg Gly Leu Ala Val Ser
                                      155
                   150
Leu Gly Leu Thr Val Leu Ile Phe His Leu Pro Phe Cys Gly Ser Arg
               165
                                   170
Leu Leu His Phe Phe Cys Asp Ile Thr Ala Leu Leu His Leu Ala
                              185
           180
Cys Thr Arg Thr Thr Pro His Glu Leu Pro Leu Leu Gly Ala Cys Leu
                           200
                                              205
Val Leu Leu Leu Pro Ser Val Leu Ile Leu Ala Ser Tyr Gly Ala
                                           220
                       215
Ile Ala Ala Ala Leu Val Arg Leu Arg Cys Pro Lys Gly Arg Gly Lys
                                       235
                   230
Ala Ala Ser Thr Cys Ala Leu His Leu Ala Val Thr Phe Leu His Tyr
                                   250
               245
Gly Cys Ala Thr Phe Met Tyr Val Arg Pro Arg Ala Ser Tyr Ser Pro
                               265
                                                   270
Arg Leu Asp Arg Thr Leu Ala Leu Val Tyr Thr Asn Val Thr Pro Leu
                            280
        275
Leu Cys Pro Leu Ile Tyr Ser Leu Arg Asn Arg Glu Ile Thr Ala Ala
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                                           300
Leu Ser Arg Val Leu Gly Arg Arg Pro Gly Gln Ala Pro Gly Gly
<210> 1197
<211> 315
<212> PRT
<213> Unknown (H38g114 protein)
<223> Synthetic construct
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Met Gly Asp Trp Asn Asn Ser Asp Ala Val Glu Pro Ile Phe Ile Leu
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Arg Gly Phe Pro Gly Leu Glu Tyr Val His Ser Trp Leu Ser Ile Leu
                                25
Phe Cys Leu Ala Tyr Leu Val Ala Phe Met Gly Asn Val Thr Ile Leu
                            40
Ser Val Ile Trp Ile Glu Ser Ser Leu His Gln Pro Met Tyr Tyr Phe
                        55
Ile Ser Ile Leu Ala Val Asn Asp Leu Gly Met Ser Leu Ser Thr Leu
                                        75
                    70
Pro Thr Met Leu Ala Val Leu Trp Leu Asp Ala Pro Glu Ile Gln Ala
                                    90
Ser Ala Cys Tyr Ala Gln Leu Phe Phe Ile His Thr Phe Thr Phe Leu
            100
                        105
Glu Ser Ser Val Leu Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile
```

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120
                                               125
Cys His Pro Leu His Tyr Pro Thr Ile Leu Thr Asn Ser Val Ile Gly
                    135
                                          140
Lys Ile Gly Leu Ala Cys Leu Leu Arg Ser Leu Gly Val Val Leu Pro
                                       155
                   150
Thr Pro Leu Leu Arg His Tyr His Tyr Cys His Gly Asn Ala Leu
                                   170
                                                       175
               165
Ser His Ala Phe Cys Leu His Gln Asp Val Leu Arg Leu Ser Cys Thr
                               185
           180
Asp Ala Arg Thr Asn Ser Ile Tyr Gly Leu Cys Val Val Ile Ala Thr
                                               205
       195
                           200
Leu Gly Val Asp Ser Ile Phe Ile Leu Leu Ser Tyr Val Leu Ile Leu
                                          220
                       215
Asn Thr Val Leu Asp Ile Ala Ser Arg Glu Glu Gln Leu Lys Ala Leu
                                       235
                   230
Asn Thr Cys Val Ser His Ile Cys Val Val Leu Ile Phe Phe Val Pro
                                   250
               245
Val Ile Gly Val Ser Met Val His Arg Phe Gly Lys His Leu Ser Pro
                               265
Ile Val His Ile Leu Met Ala Asp Ile Tyr Leu Leu Pro Pro Val
                                               285
                          280
Leu Asn Pro Ile Val Tyr Ser Val Arg Thr Lys Gln Ile Arg Leu Gly
                       295
Ile Leu His Lys Phe Val Leu Arg Arg Arg Phe
                   310
<210> 1198
<211> 289
<212> PRT
<213> Unknown (H38g115 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(289)
<223> Xaa = Any Amino Acid
<400> 1198
Phe His Gly Trp Ile Ser Met Pro Phe Cys Cys Ile Tyr Leu Met Pro
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Leu Leu Ser Asn Ala Thr Ile Leu Leu Thr Ile Trp Ser Asp Arg Thr
                               25
Leu Arg Asp Pro Met Phe Tyr Phe Leu Ala Ile Leu Ser Ala Ile Asp
                                               45
                           40
       35
Leu Ala Leu Ser Thr Ser Ser Val Pro Arg Met Leu Gly Ile Phe Trp
                       55
Phe Asp Ala His Lys Ile Gly Phe Gly Ala Trp Val Ala Gln Met Phe
                                       75
                   70
Leu Ile His Thr Phe Thr Gly Met Glu Ser Thr Val Leu Leu Ala Met
                                   90
                85
Ala Phe Asp Arg Tyr Val Ala Ile Cys Thr Ser Leu His Tyr Thr Ser
                               105
Thr Leu Thr Pro Arg Val Leu Ala Gly Ile Gly Val Ser Ile Ile Met
                           120
Arg Pro Val Leu Leu Met Leu Pro Ile Leu Tyr Leu Thr His Arg Leu
                                          140
                      135
Pro Phe Cys Glu Ala Arg Ile Ile Ala His Ser Tyr Cys Glu His Met
           150
                                       155
Gly Ile Ala Lys Leu Ala Cys Ala Ser Ile His Ile Asn Ala Ile Tyr
                                   170
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Gly Leu Phe Val Ala Ser Phe Leu Asp Val Ala Leu Val Gly Ile Ser
                         185
             180
 Tyr Thr Tyr Ile Leu Arg Ala Val Phe His Leu Pro Ser Gln Asp Ala
                                                205
                            200
 Arg His Lys Ala Leu Arg Thr Cys Gly Ser His Val Gly Val Met Cys
                                             220
                        215
 Val Phe Tyr Thr Pro Ser Leu Phe Ser Phe Leu Thr Tyr Arg Phe Ala
                                        235
                    230
 Lys Lys Ile Pro Arg Tyr Val His Ile Leu Val Ala Asn Leu Tyr Val
                                    250
                245
 Val Ile Pro Pro Ala Leu Asn Pro Ile Ile Tyr Gly Val Arg Thr Lys
                                265
            260
 Gln Ile His Glu His Val Val His Thr Phe Thr Ser Lys Xaa Gly Leu
                            280
 Leu
 <210> 1199
 <211> 174
 <212> PRT
 <213> Unknown (H38g116 protein)
 <220>
. <223> Synthetic construct
 <221> VARIANT
 <222> (1)...(174)
 <223> Xaa = Any Amino Acid
 <400> 1199
 Thr Cys Trp Val Leu Met Val Asn Val Val Asn Ala Tyr Thr Xaa Gly
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 Leu Ser Gly Ala Thr Phe Asn Thr Ile Cys Thr Phe Ala Arg Phe Phe
             20
                                 25
 Cys Asp Asp Asn Xaa Ile Lys Phe Cys His Ile Leu Pro Leu Leu Lys
        35
                             40
 Leu Ile Xaa Asn Thr Ser Gly Asn Ser Lys Ile Ile Ile Val Ile Phe
                                             60
                         55
 Asp Ser Phe Leu Ile Ile Ala Gly Thr Arg Val Ile Leu Ile Ser Tyr
                     70
                                         75
 Leu Leu Ile Ile Arg Ala Leu Arg Met Lys Ser Ser Ser Gly Lys Ala
                85
                                    90
 Lys Xaa Phe Tyr Pro Ser Thr Cys Ala Ser His Leu Thr Ala Met Thr
                                105
                                                    110
            100
 Phe Leu Trp Asp Pro His Leu Gln Tyr Met Xaa Ser Thr Ser Asp Lys
                                              125
        115 ... 120
 Ser Leu Thr Glu Asp Lys Leu Ala Ser Val Thr Cys Thr Ile Phe Ile
                                             140
                        135
 Pro Met Leu Glu Leu Leu Ile Gln Ser Leu Lys Lys Asp Ile Gln Val
                                                             160
                    150
                                        155
 Ala Phe Lys Lys Ala Ile Gly Asn Phe Trp Val Phe Glu Arg
                                     170
                 165
 <210> 1200
 <211> 318
 <212> PRT
 <213> Unknown (H38g117 protein)
 <220>
 <223> Synthetic construct
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<221> VARIANT
<222> (1)...(318)
<223> Xaa = Any Amino Acid
<400> 1200
Ile Ser Thr Met Ser Val Phe Lys Ser Ser Ala Xaa Asn Pro Arg Phe
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1
Leu Gln Thr Gly Leu Ser Gly Leu Glu Ser Arg Tyr Asp Leu Ile Ser
                                25
Leu Pro Ile Phe Leu Val Tyr Ala Thr Ser Ile Ala Gly Asn Ile Ser
                            40
Ile Leu Phe Ile Ile Arg Thr Glu Ser Ser Leu His Gln Pro Met Tyr
                        55
Tyr Phe Leu Ser Met Leu Ala Phe Thr Asp Leu Gly Leu Ser Asn Thr
                    70
                                        75
Thr Leu Pro Thr Met Phe Ser Val Phe Trp Phe His Ala Arg Glu Ile
               85
                                    90
Ser Phe Asn Ala Cys Leu Val Gln Met Tyr Phe Ile His Val Phe Ser
                               105
           100
Ile Ile Glu Ser Ala Val Leu Leu Ala Met Ala Phe Asp Cys Phe Ile
                                               125
                           120
       115
Ala Ile Xaa Glu Pro Leu Arg Tyr Ala Ala Ile Leu Thr Asn Asp Val
                                           140
                       135
Ile Ile Gly Ile Gly Leu Ala Ile Ala Gly Arg Ala Leu Ala Leu Val
                   150
                                        155
Phe Pro Ala Ser Phe Leu Leu Lys Arg Leu Gln Tyr His Asp Val Asn
                                    170
               165
Ile Leu Ser Tyr Leu Phe Cys Leu His Gln Asp Leu Ile Lys Thr Thr
                                185
                                                    190
           180
Val Ser Asn Cys Arg Val Ser Ser Ile Tyr Gly Leu Met Val Val Ile
                                                205
                           200
Cys Ser Met Gly Leu Asp Ser Val Leu Leu Leu Ser Tyr Val Leu
                                            220
                       215
Ile Leu Gly Thr Ala Leu Ser Ile Ala Ser Lys Ala Glu Arg Val Arg
                   230
                                       235
Ala Leu Asn Thr Cys Ile Ser His Ile Cys Ala Val Leu Thr Phe Tyr
                                    250
               245
Thr Pro Met Ile Gly Leu Ser Met Ile His Arg Tyr Gly Gln Asn Ala
                                265
                                                    270
           260
Pro His Ile Val His Val Leu Met Ala Asn Val Tyr Leu Met Gly Pro
                                               285
       275
                           280
Pro Leu Met Asn Pro Val Phe Tyr Ser Val Lys Thr Arg Gln Ile Arg
                       295
                                           300
Asp Arg Ile Phe Gln Ile Lys Phe Arg Asn Met Lys Cys Arg
<210> 1201
<211> 315
<212> PRT
<213> Unknown (H38g118 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(315)
<223> Xaa = Any Amino Acid
<400> 1201
Met Glu Glu Glu Asn Ala Thr Leu Leu Thr Glu Phe Val Leu Thr Gly
                5
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Phe Leu Cys Gln Gln Gly Phe Leu Trp Glu Ile Pro Leu Phe Leu Ala
            20
                                25
Phe Leu Val Ile Asp Leu Ile Thr Ile Met Gly Asn Leu Gly Leu Ile
                            40
Phe Leu Ile Trp Lys Asp Pro His Leu His Ile Ser Met Tyr Leu Phe
                        55
Leu Gly Ser Leu Ala Phe Val Asp Thr Trp Leu Ser Ser Thr Val Thr
Pro Lys Met Leu Ile Asn Phe Leu Ala Lys Ser Lys Met Ile Ser Leu
                                   90
                85
Ser Glu Cys Met Val Gln Phe Phe Ser Leu Ala Ile Ser Val Thr Thr
                               105
           100
Glu Cys Phe Ile Ser Ala Ser Met Ala Tyr Asp Arg Tyr Ala Asp Ile
                           120
                                              125
Cys Lys Pro Leu Leu Tyr Pro Val Ile Met Thr Asn Glu Leu Cys Ile
                       135
Trp Leu Phe Val Leu Ser Phe Leu Gly Gly Leu Phe His Ala Leu Ile
                   150
                                      155
His Glu Gly Phe Leu Phe Arg Leu Thr Phe Cys Asn Ser Asn Met Ile
               165
                                   170
Gln His Phe Tyr Cys Asp Ile Ile Pro Leu Leu Lys Ile Ser Cys Thr
           180
                              185
Asp Ser Cys Ile Asn Phe Leu Met Phe Phe Ile Phe Ser Gly Ser Ile
                                               205
                            200
    195
Gln Val Leu Thr Ile Gly Ile Val Phe Val Ser Tyr Met Phe Val Leu
                       215
                                            220
Phe Thr Ile Leu Lys Lys Ser Asn Lys Gly Ile Arg Glu Ala Phe
                                       235
                    230
Ser Thr Cys Gly Ala His Tyr Ile Pro Leu Ser Leu Cys Tyr Gly Leu
                                    250
Leu Leu Phe Met Tyr Val Gly Pro Ala Ala Pro Gln Ala Asp Asn Gln
                                265
Asp Met Met Glu Tyr Leu Phe Tyr Pro Ile Ile Val Arg Leu Leu Asn
       275
                            280
                                               285
Pro Tyr Tyr Tyr Ser Leu Arg Asn Lys Gln Val Ile Gly Ser Leu Thr
                       295
Lys Met Leu Lys Xaa Asn Ile Cys Ile Ala Tyr
<210> 1202
<211> 313
<212> PRT
<213> Unknown (H38g119 protein)
<220>
<223> Synthetic construct
<400> 1202
Met Ser Ile Ile Asn Thr Ser Tyr Val Glu Ile Thr Thr Phe Phe Leu
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Val Gly Met Pro Gly Leu Glu Tyr Ala His Ile Trp Ile Ser Ile Pro
Ile Cys Ser Met Tyr Leu Ile Ala Ile Leu Gly Asn Gly Thr Ile Leu
Phe Ile Ile Lys Thr Glu Pro Ser Leu His Gly Pro Met Tyr Tyr Phe
                                            60
                        55
Leu Ser Met Leu Ala Met Ser Asp Leu Gly Leu Ser Leu Ser Ser Leu
                                       75
                   70
Pro Thr Val Leu Ser Ile Phe Leu Phe Asn Ala Pro Glu Thr Ser Ser
                                   90
Ser Ala Cys Phe Ala Gln Glu Phe Phe Ile His Gly Phe Ser Val Leu
```

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100
                               105
 Glu Ser Ser Val Leu Leu Ile Met Ser Phe Asp Arg Phe Leu Ala Ile
                           120
                                               125
His Asn Pro Leu Arg Tyr Thr Ser Ile Leu Thr Thr Val Arg Val Ala
                       135
                                           140
Gln Ile Gly Ile Val Phe Ser Phe Lys Ser Met Leu Leu Val Leu Pro
                   150
                                       155
 Phe Pro Phe Thr Leu Arg Ser Leu Arg Tyr Cys Lys Lys Asn Gln Leu
               165
                                    170
Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Ser
            180
                               185
                                                   190
Asp Asn Arg Ile Asp Val Ile Tyr Gly Phe Phe Gly Ala Leu Cys Leu
     195
                            200
                                                205
Met Val Asp Phe Ile Leu Ile Ala Val Ser Tyr Thr Leu Ile Leu Lys
                       215
                                            220
Thr Val Pro Gly Ile Ala Ser Lys Lys Glu Glu Leu Lys Ala Leu Asn
                   230
                                        235
Thr Cys Val Ser His Ile Cys Ala Val Ile Ile Phe Tyr Leu Pro Ile
               245
                                   250
Ile Asn Leu Ala Val Val His Arg Phe Ala Gly His Val Ser Pro Leu
                               265
Ile Asn Val Leu Met Ala Asn Val Leu Leu Val Pro Pro Leu Met
       275
                           280
Lys Pro Ile Val Tyr Cys Val Lys Thr Lys Gln Ile Arg Val Arg Val
                       295
                                           300
Val Ala Lys Leu Cys Gln Trp Lys Ile
<210> 1203
<211> 314
<212> PRT
<213> Unknown (H38g120 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(314)
<223> Xaa = Any Amino Acid
<400> 1203
Met Glu Glu Lys Asn Ala Thr Leu Leu Thr Glu Phe Val Leu Thr Leu
                                   10
Phe Leu Tyr Gln Pro His Trp Lys Ile Pro Leu Phe Leu Ala Phe Leu
           20
                               25
Val Ile Tyr Leu Ile Thr Ile Phe Gly Asn Leu Gly Leu Ile Ala Val
                           40
Val Trp Lys Asp Pro His Leu His Ile Pro Ile Tyr Leu Phe Leu Glu
                      55
                                          60
Asn Leu Ala Phe Val Asp Asp Leu Leu Ser Ser Thr Val Thr Leu Lys
                                       75
Met Leu Ile Asn Phe Phe Thr Lys Ser Lys Leu Ile Ser Leu Glu Cys
                                  90
Trp Ile His Phe Phe Ser Phe Ala Ile Gly Val Thr Thr Glu Cys Phe
          100
                              105
Ile Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro
                          120
                                              125
Leu Leu Tyr Pro Val Ile Met Thr Asn Gly Leu Cys Ile Trp Leu Leu
                       135
                                          140
Ile Leu Ser Phe Leu Gly Gly Leu Leu His Ala Leu Ile His Glu Ala
                   150
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Phe Ser Tyr Arg Leu Thr Phe Cys Asn Ser Asn Thr Ile His His Phe
                165
                            170
Xaa Cys Asp Ile Ile Pro Leu Leu Lys Ile Phe Cys Thr Asp Ser Ser
                                                   190
                               185
Ile Asn Phe Pro Met Val Phe Ile Phe Ser Cys Ser Ile Gln Val Phe
                           200
Thr Ile Gly Thr Val Leu Val Ser Tyr Thr Phe Val Leu Ser Thr Ile
                       215
                                           220
Leu Lys Lys Lys Ser Val Lys Gly Ile Arg Lys Asp Phe Ser Thr Cys
                   230
                                       235
Gly Ala His Ile Leu Pro Val Ser Leu Tyr Tyr Gly Pro Leu Ala Phe
                245
                                   250
Met Tyr Val Gly Ser Ala Ser Gln Arg Ala Asp Asp Gln Asp Met Met
                               265
Glu Ser Leu Phe Tyr Thr Val Ile Val Pro Leu Leu Asn Pro Met Ile
                           280
                                               285
Tyr Ser Leu Arg Asn Lys Gln Val Ile Asp Ser Phe Thr Lys Met Phe
                 295
                                           300
Lys Gly Asn Asn Val Xaa Ile Ser Tyr Ser
<210> 1204
<211> 171
<212> PRT
<213> Unknown (H38g121 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(171)
<223> Xaa = Any Amino Acid
<400> 1204
Cys Xaa Val Gln Val Ser Xaa Val Ala Glu Lys Tyr Xaa Xaa Ile Leu
Phe Val Ala Leu Phe Asn Lys Thr Lys Ser Ile Cys Gln Pro Gln Asn
                               25
Ile Ala Thr Pro Arg Pro Trp Ala Phe Pro Gln His Ser Phe Thr Ser
                           40
                                               45
Thr Ser Cys Phe Gly Gly Thr Ser Thr Gly Leu Ser Xaa Ala Val Lys
                       55
                                           60
Ser Pro Ile Ser Ser Val Cys Pro Leu Leu Gln Leu Leu Gln Tyr
                   70
                                       75
Pro Cys Asn Asn Ile Thr Cys Leu Xaa Asn Ala Ala Asp Arg Glu Phe
             - 85
                                   90
Leu Ser Phe Xaa Asp Pro Leu Leu Ala Val Gly Ser Phe Thr Ile Ser
            100
                               105
Ser Cys Leu Leu Met Leu Lys Leu Ile Ser Phe Ser Ser Ser Arg Ile
                           120
Ile Ala Ser Leu Leu Ser Arg Cys Pro Thr Glu Ser His Arg Ser Pro
                       135
                                           140
Phe Xaa Tyr Ser Phe Cys His Leu Phe Cys Leu Phe Phe Met Thr
                   150
                                      155
Glu Asn Pro Trp Xaa Tyr Leu Xaa Phe Pro Ser
                165
<210> 1205
<211> 308
<212> PRT
<213> Unknown (H38g122 protein)
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<220> <223> Synthetic construct <400> 1205 Met Asn Thr Thr Leu Phe His Pro Tyr Ser Phe Leu Leu Gly Ile 10 Pro Gly Leu Glu Ser Met His Leu Trp Val Gly Phe Pro Phe Ala 25 Val Phe Leu Thr Ala Val Leu Gly Asn Ile Thr Ile Leu Phe Val Ile 40 Gln Thr Asp Ser Ser Leu His His Pro Met Phe Tyr Phe Leu Ala Ile 55 60 Leu Ser Ser Ile Asp Pro Gly Leu Ser Thr Ser Thr Ile Pro Lys Met 75 70 Leu Gly Thr Phe Trp Phe Thr Leu Arg Glu Ile Ser Phe Glu Gly Cys 85 90 Leu Thr Gln Met Phe Phe Ile His Leu Cys Thr Gly Met Glu Ser Ala 105 Val Leu Val Ala Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys Asp Pro 120 Leu Cys Tyr Thr Leu Val Leu Thr Asn Lys Val Val Ser Val Met Ala 135 140 Leu Ala Ile Phe Leu Arg Pro Leu Val Phe Val Ile Pro Phe Val Leu 150 155 Phe Ile Leu Arg Leu Pro Phe Cys Gly His Gln Ile Ile Pro His Thr 165 170 Tyr Gly Glu His Met Gly Ile Ala Arg Leu Ser Cys Ala Ser Ile Arg 180 185 190 Val Asn Ile Ile Tyr Gly Leu Cys Ala Ile Ser Ile Leu Val Phe Asp 200 205 Ile Ile Ala Ile Val Ile Ser Tyr Val Gln Ile Leu Cys Ala Val Phe 215 220 Leu Leu Ser Ser His Asp Ala Arg Leu Lys Ala Phe Ser Thr Cys Gly 230 235 Ser His Val Cys Val Met Leu Thr Phe Tyr Met Pro Ala Phe Phe Ser 245 250 Phe Met Thr His Arg Phe Gly Arg Asn Ile Pro His Phe Ile His Ile 260 265 Leu Leu Ala Asn Phe Tyr Val Val Ile Pro Pro Ala Leu Asn Ser Val 280 285 Ile Tyr Gly Val Arg Thr Lys Gln Ile Arg Ala Gln Val Leu Lys Met 290 295 Phe Phe Asn Lys 305 <210> 1206 <211> 309 <212> PRT <213> Unknown (H38g123 protein) <220> <223> Synthetic construct <400> 1206 Met Glu Glu Glu Asn Ala Thr Leu Leu Thr Glu Phe Val Leu Thr Gly 5 10 Phe Leu His Gln Pro Asp Cys Lys Ile Pro Leu Phe Leu Ala Phe Leu Val Ile Tyr Leu Ile Thr Ile Met Gly Asn Leu Gly Leu Ile Val Leu 35 40

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105
           100
Thr Val Met Ala Tyr Asp Cys Tyr Val Val Ile Cys Lys Pro Leu Arg
                          120
Tyr Thr Thr Ile Met Lys Gln His Val Cys Ser Leu Leu Val Gly Val
                                           140
                       135
Ser Arg Val Gly Gly Phe Leu His Ala Thr Ile Gln Ile Leu Phe Ile
                   150
                                      155
Phe Gln Leu Pro Phe Cys Ser Ser Asn Val Ile Asp His Phe Ile Cys
               165
                                   170
Asp Leu Asn Pro Leu Leu Asn Leu Ala Cys Thr Asn Thr His Thr Leu
                               185
Gly Leu Phe Val Ala Ala Asn Ser Gly Phe Ile Cys Leu Leu Asn Phe
                           200
Leu Leu Leu Val Ser Tyr Val Val Ile Leu Tyr Ser Leu Arg Thr
                       215
                                           220
His Ser Leu Glu Ala Arg His Lys Gly Leu Ser Thr Cys Val Ser His
                   230
                                       235
Asn Thr Val Val Ile Leu Phe Phe Ile Pro Cys Ile Phe Val Tyr Met
               245
                                   250
Arg Pro Pro Ala Thr Leu Pro Ile Asp Lys Ala Val Ala Val Phe Tyr
                               265
Thr Met Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn
                 280
Ala Gln Met Lys Asn Ala Ile Arg Lys Leu Cys Ser Arg Lys Ala Ile
                      295
Ser Ser Val Lys
305
<210> 1208
<211> 321
<212> PRT
<213> Unknown (H38g125 protein)
<220>
<223> Synthetic construct
<400> 1208
Met Phe Leu Pro Asn Asp Thr Gln Phe His Pro Ser Ser Phe Leu Leu
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Leu Gly Ile Pro Gly Leu Glu Thr Leu His Ile Trp Ile Gly Phe Pro
                               25
Phe Cys Ala Val Tyr Met Ile Ala Leu Ile Gly Asn Phe Thr Ile Leu
                           40
Leu Val Ile Lys Thr Asp Ser Ser Leu His Gln Pro Met Phe Tyr Phe
                       55
Leu Ala Met Leu Ala Thr Thr Asp Val Gly Leu Ser Thr Ala Thr Ile
                   70
Pro Lys Met Leu Gly Ile Phe Trp Ile Asn Leu Arg Gly Ile Ile Phe
               85
                                   90
Glu Ala Cys Leu Thr Gln Met Phe Phe Ile His Asn Phe Thr Leu Met
                               105
Glu Ser Ala Val Leu Val Ala Met Ala Tyr Asp Ser Tyr Val Ala Ile
                           120
                                               125
Cys Asn Pro Leu Gln Tyr Ser Ala Ile Leu Thr Asn Lys Val Val Ser
                       135
                                           140
Val Ile Gly Leu Gly Val Phe Val Arg Ala Leu Ile Phe Val Ile Pro
                   150
                                       155
Ser Ile Leu Leu Ile Leu Arg Leu Pro Phe Cys Gly Asn His Val Ile
               165
                                   170
Pro His Thr Tyr Cys Glu His Met Gly Leu Ala His Leu Ser Cys Ala
                              185
           180
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Ser Ile Lys Ile Asn Ile Ile Tyr Gly Leu Cys Ala Ile Cys Asn Leu
                           200
Val Phe Asp Ile Thr Val Ile Ala Leu Ser Tyr Val His Ile Leu Cys
                       215
                                           220
Ala Val Phe Arg Leu Pro Thr His Glu Pro Arg Leu Lys Ser Leu Ser
                   230
                                       235
Thr Cys Gly Ser His Val Cys Val Ile Leu Ala Phe Tyr Thr Pro Ala
               245
                                   250
Leu Phe Ser Phe Met Thr His Cys Phe Gly Arg Asn Val Pro Arg Tyr
                               265
           260
Ile His Ile Leu Leu Ala Asn Leu Tyr Val Val Pro Pro Met Leu
       275
                           280
Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Gln Ile Tyr Lys Cys Val
                       295
                                           300
Lys Lys Ile Leu Leu Gln Glu Gln Gly Met Glu Lys Glu Glu Tyr Leu
305
                   310
                                       315
Ile
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<210> 1209 <211> 298 <212> PRT

<213> Unknown (H38g126 protein)

<220>

<223> Synthetic construct

<400> 1209 Met Arg Asn His Thr Met Val Thr Glu Phe Ile Leu Leu Gly Ile Pro 5 10 Glu Thr Glu Gly Leu Glu Thr Ala Leu Leu Phe Leu Phe Ser Ser Phe 25 20 Tyr Leu Cys Thr Leu Leu Gly Asn Val Leu Ile Leu Thr Ala Ile Ile 40 45 Ser Ser Thr Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn Leu 55 60 Ser Ile Phe Asp Leu Gly Phe Ser Ser Thr Thr Val Pro Lys Met Leu 70 75 Phe Tyr Leu Ser Gly Asn Ser His Ala Ile Ser Tyr Ala Gly Cys Val 85 90 Ser Gln Leu Phe Phe Tyr His Phe Leu Gly Cys Thr Glu Cys Phe Leu 105 110 100 Tyr Thr Val Met Ala Cys Asp Arg Phe Val Ala Ile Cys Phe Pro Leu 125 115 120 Arg Tyr Thr Val Ile Met Asn His Arg Val Cys Phe Met Leu Ala Thr 135 140 Gly Thr Trp Met Ile Gly Cys Val His Ala Met Ile Leu Thr Pro Leu 155 150 Thr Phe Gln Leu Pro Tyr Cys Gly Pro Asn Lys Val Gly Tyr Tyr Phe 165 170 Cys Asp Ile Pro Ala Val Leu Pro Leu Ala Cys Lys Asp Thr Ser Leu 185 190 Ala Gln Arg Val Gly Phe Thr Asn Val Gly Leu Leu Ser Leu Ile Cys 205 195 200 Phe Phe Leu Ile Leu Val Ser Tyr Thr Cys Ile Gly Ile Ser Ile Ser 215 220 Lys Ile Arg Ser Ala Glu Gly Arg Gln Arg Ala Phe Ser Thr Cys Ser 235 230 Ala His Leu Thr Ala Ile Leu Cys Ala Tyr Gly Pro Val Ile Val Ile 245 250

Tyr Leu Gln Pro Asn Pro Ser Ala Leu Leu Gly Ser Ile Ile Gln Ile

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265
                                                 270
          260
Leu Asn Asn Leu Val Thr Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu
                280
Arg Asn Lys Asp Val Lys Ser Asp Gln Pro
                      295
<210> 1210
<211> 324
<212> PRT
<213> Unknown (H38g127 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(324)
<223> Xaa = Any Amino Acid
<400> 1210
Met Glu Glu Glu Asn Thr Thr Leu Leu Thr Glu Phe Val Leu Thr Gly
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Phe Leu Tyr Gln Pro Gln Trp Lys Ile Pro Leu Phe Leu Ala Phe Leu
                             25
Val Ile Xaa Leu Ile Thr Ile Met Gly Asn Leu Gly Leu Ile Val Leu
                          40
Ile Trp Lys Asp Pro His Leu His Ile Pro Met Tyr Leu Phe Arg Gly
         55
Ser Leu Ala Phe Val Asp Ala Trp Leu Ser Ser Thr Val Thr Pro Lys
                  70
                                 75
Met Leu Ile Asn Phe Leu Ala Lys Ser Lys Met Ile Ser Leu Ser Glu
                               90
              85
Cys Met Val Gln Phe Phe Ser Phe Val Ile Ser Val Thr Thr Glu Cys
                            105
Phe Ile Ser Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
                                            125
                         120
Ala Leu Leu Tyr Pro Val Ile Met Thr Asn Gly Leu Cys Ile Gln Leu
                                         140
                      135
Leu Val Leu Ser Phe Ile Gly Gly Leu Leu His Ala Leu Ile His Glu
                  150
                                     155
Ile Phe Leu Phe Arg Leu Thr Phe Cys Asn Ser Asn Ile Ile Gln His
                                 170
              165
Phe Tyr Cys Asp Ile Ile Pro Leu Leu Lys Ile Ser Cys Thr Asp Ser
                             185
                                                190
          180
Phe Ile Asn Phe Leu Met Val Phe Ile Phe Ala Asp Ser Ile Gln Val
                                            205
                         200
Phe Thr Ile Gly Thr Ile Leu Ile Ser Tyr Thr Leu Val Leu Leu Ile
                                         220
                     215
Ile Leu Lys Asn Lys Ser Val Lys Gly Ile Gln Lys Ala Val Ser Thr
                  230
                                      235
Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr Tyr Gly Pro Leu Val
                                 250
               245
Phe Met Tyr Val Gly Ser Ala Ser Pro Gln Ala Asp Asp Gln Asp Met
                              265
           260
Met Glu Ser Leu Phe Tyr Thr Val Ile Val Pro Leu Leu Asn Ser Met
                         280
                                            285
Ile Tyr Ser Leu Arg Asn Lys Gln Val Ile Ala Ser Phe Thr Lys Met
                              300
                     295
Phe Lys Arg Asn Val Xaa Ile Ser Tyr Asn Leu Cys Ser Leu Phe Thr
                  310
                                     315
Lys Ile Phe Pro
```

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<210> 1211
<211> 308
<212> PRT
<213> Unknown (H38g128 protein)
<223> Synthetic construct
<400> 1211
Met Met Ser Asn Gln Thr Leu Val Thr Glu Phe Ile Leu Gln Gly Phe
                                    10
Ser Glu His Pro Glu Tyr Arg Val Phe Leu Phe Ser Cys Phe Leu Phe
                                25
Leu Tyr Ser Gly Ala Leu Thr Gly Asn Val Leu Ile Thr Leu Ala Ile
                           40
Thr Phe Asn Pro Gly Leu His Ala Pro Met Tyr Phe Phe Leu Leu Asn
Leu Ala Thr Met Asp Ile Ile Cys Thr Ser Ser Ile Met Pro Lys Ala
                   70
Leu Ala Ser Leu Val Ser Glu Glu Ser Ser Ile Ser Tyr Gly Gly Cys
               85
                                   90
Met Ala Gln Leu Tyr Phe Leu Thr Trp Ala Ala Ser Ser Glu Leu Leu
                            105
           100
Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro
                           120
Leu His Tyr Ser Ser Met Met Ser Lys Val Phe Cys Ser Gly Leu Ala
                       135
                                           140
Thr Ala Val Trp Leu Leu Cys Ala Val Asn Thr Ala Ile His Thr Gly
                                       155
                   150
Leu Met Leu Arg Leu Asp Phe Cys Gly Pro Asn Val Ile Ile His Phe
                                   170
Phe Cys Glu Val Pro Pro Leu Leu Leu Ser Cys Ser Ser Thr Tyr
                                                  190
                               185
Val Asn Gly Val Met Ile Val Leu Ala Asp Ala Phe Tyr Gly Ile Val
                                              205
                           200
Asn Phe Leu Met Thr Ile Ala Ser Tyr Gly Phe Ile Val Ser Ser Ile
                                            220
                       215
Leu Lys Val Lys Thr Ala Trp Gly Arg Gln Lys Ala Phe Ser Thr Cys
                   230
                                        235
Ser Ser His Leu Thr Val Val Cys Met Tyr Tyr Thr Ala Val Phe Tyr
                                   250
               245
Ala Tyr Ile Ser Pro Val Ser Gly Tyr Ser Ala Gly Lys Ser Lys Leu
                               265
                                                   270
Ala Gly Leu Leu Tyr Thr Val Leu Ser Pro Thr Leu Asn Pro Leu Ile
                                              285
                           280
Tyr Thr Leu Arg Asn Lys Glu Val Lys Ala Ala Leu Arg Lys Leu Phe
   290
                       295
Pro Phe Phe Arg
<210> 1212
<211> 319
<212> PRT
<213> Unknown (H38g129 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(319)
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<223> Xaa = Any Amino Acid

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<400> 1212
Met Asp Asp Glu Asn Ala Thr Leu Leu Thr Glu Phe Val Leu Thr Gly
                                    10
Leu Thr Tyr Gln Ser Glu Trp Lys Ile Pro Leu Phe Leu Ala Phe Leu
                                25
Val Ile Tyr Leu Ile Thr Ile Met Ala Asn Leu Gly Leu Ile Ala Val
                            40
Ile Trp Lys Asp Ser His Leu His Ile Pro Met Tyr Leu Phe Leu Gly
                        55
                                            60
Ser Leu Ala Phe Val Asp Ala Trp Leu Ser Ser Ser Val Thr Pro Lys
                    70
                                        75
Met Leu Ile Ser Phe Leu Ala Lys Ser Met Ile Ile Ser Val Ser Glu
               85
                                   90
Cys Lys Ile Gln Phe Phe Ser Phe Gly Ile Ser Gly Thr Thr Glu Cys
           100
                               105
                                                    110
Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
                            120
                                                125
Pro Leu Leu Tyr Pro Val Ile Met Thr Asn Gly Leu Cys Ile Trp Leu
                        135
                                            140
Leu Val Leu Ser Phe Ile Gly Gly Phe Leu His Ala Leu Ile His Glu
                   150
                                       155
Gly Ile Leu Phe Arg Leu Thr Phe Cys Asn Ser Asn Ile Ile His His
                                   170
               165
Phe Tyr Cys Asp Ile Ile Pro Leu Leu Lys Ile Ser Cys Thr Asp Pro
           180
                               185
Ser Ile Asn Phe Leu Met Leu Phe Ile Leu Ser Gly Ser Ile Gln Val
       195
                           200
                                                205
Phe Thr Ile Leu Thr Val Leu Val Ser Tyr Thr Phe Val Leu Phe Thr
                       215
                                            220
Ile Leu Lys Lys Ser Ala Lys Asp Ile Arg Lys Ala Phe Ser Thr
                   230
                                        235
Cys Gly Ala His Leu Leu Ser Val Ser Leu Tyr Tyr Gly Pro Leu Leu
               245
                                    250
                                                        255
Phe Met Tyr Val His Pro Ala Ser Pro Gln Ala Asp Asp Gln Asp Met
                               265
Val Glu Ser Leu Phe Tyr Thr Val Ile Ile Pro Phe Leu Asn Pro Ile
                           280
Ile Tyr Ser Leu Arg Asn Lys Gln Val Ile Asp Ser Leu Thr Lys Thr
                       295
                                           300
Leu Lys Gly Asn Val Xaa Ile Ser Tyr Trp Asn Val Phe Ser Ile
                   310
<210> 1213
<211> 311
<212> PRT
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<213> Unknown (H38g130 protein)

<223> Synthetic construct

<400> 1213

Met Val Glu Glu Asn His Thr Met Lys Asn Glu Phe Ile Leu Thr Gly 5 10 Phe Thr Asp His Pro Glu Leu Lys Thr Leu Leu Phe Val Val Phe Phe 25 Ala Ile Tyr Leu Ile Thr Val Val Gly Asn Ile Ser Leu Val Ala Leu 35 40 45 Ile Phe Thr His Arg Arg Leu His Thr Pro Met Tyr Ile Phe Leu Gly 55

```
Asn Leu Ala Leu Val Asp Ser Cys Cys Ala Cys Ala Ile Thr Pro Lys
                    70
                                         75
 Met Leu Glu Asn Phe Phe Ser Glu Gly Lys Arg Ile Ser Leu Tyr Glu
                                     90
 Cys Ala Val Gln Phe Tyr Phe Leu Cys Thr Val Glu Thr Ala Asp Cys
            100
                                105
 Phe Leu Leu Ala Ala Val Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
                            120
                                                 125
 Pro Leu Gln Tyr His Ile Met Met Ser Lys Lys Leu Cys Ile Gln Met
                        135
                                            140
Thr Thr Gly Ala Phe Ile Ala Gly Asn Leu His Ser Met Ile His Val
                    150
                                        155
Gly Leu Val Phe Arg Leu Val Phe Cys Gly Leu Asn His Ile Asn His
                165
                                    170
Phe Tyr Cys Asp Thr Leu Pro Leu Tyr Arg Leu Ser Cys Val Asp Pro
            180
                                185
                                                    190
Phe Ile Asn Glu Leu Val Leu Phe Ile Phe Ser Gly Ser Val Gln Val
        195
                            200
                                                 205
Phe Thr Ile Gly Ser Val Leu Ile Ser Tyr Leu Tyr Ile Leu Leu Thr
   210
                        215
                                             220
Ile Phe Arg Met Lys Ser Lys Glu Gly Arg Ala Lys Ala Phe Ser Thr
                    230
                                        235
Cys Ala Ser His Phe Ser Ser Val Ser Leu Phe Tyr Gly Ser Ile Phe
               245
                                    250
Phe Leu Tyr Ile Arg Pro Asn Leu Leu Glu Glu Gly Gly Asn Asp Ile
                                265
Pro Ala Ala Ile Leu Phe Thr Ile Val Val Pro Leu Leu Asn Pro Phe
                           280
        275
                                                285
Ile Tyr Ser Leu Arg Asn Lys Glu Val Ile Ser Val Leu Arg Lys Ile
                        295
Leu Leu Lys Ile Lys Ser Gln
<210> 1214
<211> 328
<212> PRT
<213> Unknown (H38g131 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(328)
<223> Xaa = Any Amino Acid
<400> 1214
Tyr Thr Asp Pro Gln Asn Leu Thr Asp Val Phe Ile Phe Leu Leu Leu
                                    10
Glu Leu Ser Glu Asp Pro Ala Leu Gln Leu Val Val Thr Gly Leu Cys
           20
                                25
Leu Met Cys Leu Val Thr Val Leu Trp Asn Leu Leu Ser Ile Leu Ala
       35
                            40
Val Ser Pro Asp Ser His Leu His Thr Pro Met His Phe Phe Leu Cys
                        55
                                            60
Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro Lys
                   70
                                        75
Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly
               85
                                    90
Cys Leu Thr Gln Met Ser Leu Ser Ala Ile Phe Gly Gly Met Glu Glu
                               105
Asn Met Leu Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Ile Cys
```

```
115
                            120
                                            · 125
His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly Phe
                        135
                                            140
Leu Val Leu Leu Ser Phe Phe Phe Ser Val Phe Xaa His Ser Gln Leu
                    150
                                        155
Gln Asn Leu Ile Ala Leu Gln Ile Thr Cys Ser Lys Asp Val Glu Ile
                165
                                    170
Pro Asn Phe Phe Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys
                                                   190
                                185
Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile Phe
                            200
                                                205
Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile Val
                       215
                                           220
Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Ser Tyr Lys Ala Phe
                    230
                                        235
Ala Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly Thr
               245
                                   250
Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Leu Arg Lys
            260
                            265
Arg Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn
       275
                           280
                                               285
Pro Leu Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Val Leu Trp
                                         300
                       295
Gln Pro Cys Ser Arg Thr Ala Ala Gln Ser Pro Ser Gln Tyr Leu His
                   310
Leu Phe His Ser Phe Cys Arg Met
                325
<210> 1215
<211> 328
<212> PRT
<213> Unknown (H38g132 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(328)
<223> Xaa = Any Amino Acid
<400> 1215
Met Glu Pro Gln Phe Thr Thr Gln Gly Ser Met Phe Val Leu Leu Gly
1
                                    10
Xaa Ser Gln Thr Gln Glu Leu Gln Arg Val Met Phe Ile Leu Phe Leu
            20
                                25
Leu Val Tyr Val Thr Thr Ile Val Gly Asn Leu Leu Ile Met Val Thr
                            40
Val Thr Phe Asp Cys Arg Leu His Pro Met Tyr Phe Leu Leu Arg Asn
                       55
Leu Ala Leu Ile Asp Val Cys Tyr Ser Thr Val Thr Ser Pro Lys Met
                   70
                                       75
Leu Val Asp Phe Leu His Glu Thr Lys Thr Ile Ser Tyr Gln Gly Cys
               85
                                    90
Met Ala Gln Ile Phe Phe His Leu Leu Gly Gly Gly Thr Val Phe
           100
                               105
                                                   110
Phe Leu Ser Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Ser Gln Pro
                           120
                                               125
Leu Arg Tyr Val Thr Ile Met Asn Thr Gln Leu Cys Val Gly Leu Val
                       135
                                           140
Val Ala Ala Trp Val Gly Gly Phe Val His Ser Ile Val Gln Leu Ala
```

155

150

```
Val Ile Arg Pro Gln Pro Leu Cys Gly Pro Asn Ile Leu Asp Asn Phe
                                    170
                165
Tyr Cys Asp Val Pro Gln Val Leu Arg Leu Ala Cys Thr Asp Thr Ser
            180
                               185
Leu Leu Glu Phe Leu Met Ile Ser Asn Ser Gly Leu Leu Val Ile Ile
                            200
                                                205
Trp Phe Leu Leu Ser Leu Met Ser Tyr Thr Val Ile Leu Val Met Leu
                        215
                                           220
Arg Ser His Ser Gly Lys Ala Arg Ser Lys Ala Ala Ser Thr Cys Thr
                                        235
                    230
Thr His Ile Ile Val Val Ser Met Ile Phe Ile Pro Cys Ile Tyr Ile
                245
                                   250
                                                        255
Tyr Thr Trp Pro Phe Thr Pro Phe Ile Met Asp Lys Ala Val Ser Ile
                                                    270
                               265
           260
Ser Tyr Thr Val Met Thr Pro Met Leu Asn Pro Met Ile Tyr Thr Leu
        275
                           280
                                                285
Arg Asn Gln Asp Met Lys Ala Ala Met Arg Arg Leu Gly Lys Cys Leu
                                           300
                       295
Val Ile Cys Arg Glu Leu Thr Leu Ser Lys Leu Thr Leu Asn Asp Lys
                                       315
                  310
Leu Leu Trp Ile Cys Tyr Phe Pro
                325
<210> 1216
<211> 129
<212> PRT
<213> Unknown (H38g133 protein)
<220>
<223> Synthetic construct
<400> 1216
Met Gln Gly Glu Asn Phe Thr Ile Trp Ser Ile Phe Phe Leu Glu Gly
                5
                                    10
1
Phe Ser Gln Tyr Pro Gly Leu Glu Val Val Leu Phe Val Phe Ser Leu
            20
                                25
Val Met Tyr Leu Thr Thr Leu Leu Gly Asn Ser Thr Leu Ile Leu Ile
                           40
        35
Thr Ile Leu Asp Ser Arg Leu Lys Thr Pro Met Tyr Leu Phe Leu Gly
                        55
                                            60
Asn Leu Ser Phe Met Asp Ile Cys Tyr Thr Ser Ala Ser Val Pro Thr
                                        75
                    70
Leu Leu Val Asn Leu Leu Ser Ser Gln Lys Thr Ile Ile Phe Ser Gly
                                   90
               85
Cys Ala Val Gln Met Tyr Leu Ser Leu Ala Met Gly Ser Thr Glu Cys
                               105
                                                   110
Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
                            120
<210> 1217
<211> 335
<212> PRT
<213> Unknown (H38g134 protein)
<220>
<223> Synthetic construct
<221> VARIANT
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<222> (1)...(335)

<223> Xaa = Any Amino Acid

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<400> 1217
Ser Thr Asp Pro Gln Asn Leu Thr Asp Val Ser Ile Phe Leu Leu Leu
                                    10
Gly Thr Ser Glu Asp Pro Glu Arg Gln Leu Val Leu Ala Gly Leu Phe
                                25
           20
Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Ile Ile Leu
                            40
Asp Val Ser Pro Asp Ser His Leu Pro Thr Pro Met Tyr Phe Phe Leu
                       55
                                            60
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
                   70
                                        75
Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Phe Tyr Ala
                                   90
               85
Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
           100
                               105
                                                    110
Glu Asn Thr Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile
                                               125
       115
                           120
Cys His Pro Leu Cys His Ser Ala Ser Met Asn Pro Cys Phe Cys Gly
                       135
                                            140
Phe Leu Val Leu Leu Ser Phe Phe Phe Leu Ser Leu Leu Asp Thr Gln
                   150
                                        155
Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Asp
                                    170
               165
Ile Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala Cys
                               185
           180
Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile
       195
                           200
Phe Gly Phe Leu Gln Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile
                       215
                                           220
Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Asn Tyr Lys Ala
                                        235
                   230
Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
               245
                                    250
Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg
                                265
                                                    270
           260
Lys Gly Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu
                            280
                                                285
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Gly Asp Ile Lys Ser Val Leu
                                            300
                       295
Arg Arg Pro Gln Gly Ser Lys Val Xaa Tyr Gln Tyr Leu Leu Ile Cys
                   310
                                       315
Ser Ile Pro Phe Val Gly Trp Val Lys Lys Gly Ser Lys Val Lys
                                    330
```

- <210> 1218
- <211> 319
- <212> PRT
- <213> Unknown (H38g135 protein)
- <220>
- <223> Synthetic construct
- <221> VARIANT
- <222> (1)...(319)
- <223> Xaa = Any Amino Acid
- <400> 1218
- Met Lys Asn Lys Arg Asn Val Thr Glu Phe Val Leu Thr Gly Leu Thr 1 5 10 15

```
Gln Asn Pro Lys Met Glu Lys Val Met Phe Ala Val Phe Leu Val Leu
            20
                                25
Tyr Met Ile Thr Leu Ser Gly Asn Leu Leu Leu Val Val Thr Ile Thr
                            40
Thr Ser Gln Ala Leu Ser Ser Pro Met Tyr Phe Phe Leu Ser His Leu
                        55
Ser Leu Ile Asp Thr Val Tyr Ser Ser Ser Ser Ala Pro Lys Leu Ile
                                        75
                    70
Val Asp Ser Leu His Glu Lys Lys Ile Ile Ser Phe Asn Gly Cys Met
                                    90
Ala Gln Ala Tyr Glu Glu His Ile Phe Gly Ala Thr Glu Ile Ile Leu
            100
                                105
Leu Thr Val Met Ala Cys Asp Asn Tyr Val Ala Ile Cys Lys Pro Leu
                                                125
       115
                            120
His Tyr Thr Thr Ile Met Ser His Ser Leu Cys Ile Leu Leu Val Val
                                            140
                        135
Val Ala Trp Ile Gly Gly Phe Leu His Ala Asn Ile Gln Ile Leu Phe
                                        155
                    150
Thr Val Trp Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Met
                                    170
Cys Asp Leu Cys Pro Leu Leu Lys Leu Val Cys Leu Asp Thr His Thr
                                185
           180
Leu Gly Leu Phe Val Ala Ala Asn Ser Gly Phe Ile Cys Leu Leu Asn
                                                205
       195
                            200
Phe Leu Leu Xaa Val Val Ser Tyr Val Ile Ile Leu Arg Cys Leu Lys
                                            220
                       215
Asn Tyr Ile Leu Glu Gly Arg Gly Lys Ala Leu Ser Thr Cys Ile Ser
                                        235
225
                   230
His Ile Ile Ile Val Val Leu Phe Phe Val Pro Cys Ile Phe Val Tyr
                                    250
                245
Leu His Pro Val Thr Thr Leu Pro Ile Asp Lys Ala Ala Ala Val Phe
                                265
Tyr Thr Met Val Val Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
                                                285
        275
                            280
Asn Ala Glu Val Lys Ser Ala Ile Arg Lys Leu Trp Arg Lys Lys Val
                       295
                                            300
Ile Ser Asp Asn Asp Xaa Ile Arg Pro Leu Ser Thr His His Arg
                    310
<210> 1219
<211> 312
<212> PRT
<213> Unknown (H38g136 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(312)
<223> Xaa = Any Amino Acid
<400> 1219
Met Glu Ile Gly Asn His Thr Thr Val Thr Glu Phe Ile Ile Leu Gly
                                    10
                -5
Leu Thr Glu Asp Pro Thr Leu Cys Asp Ile Phe Phe Val Ile Phe Leu
            20
                                25
Gly Ile Tyr Ile Val Thr Leu Ile Gly Asn Ile Ser Ile Ile Lys Lys
        35
                            40
Arg Ser Gln Leu His Thr Pro Met Tyr Leu Phe Leu Ser His Leu Ala
```

Phe Val Asp Ile Gly Leu Ala Thr Val Val Thr Pro Ile Met Leu Met

```
75
                    70
Gly Phe Leu Arg Arg Gly Thr Ala Leu Pro Val Thr Ser Cys Glu Ala
               85
                                   90
Gln Leu Cys Ser Val Val Met Phe Gly Thr Ser Glu Cys Phe Leu Leu
           100
                               105
Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser Pro Leu Val
                           120
Asn Ser Thr His Leu Ser Pro Ile Ile Cys Ile Leu Leu Val Gly Val
                       135
                                           140
Cys Tyr Leu Gly Gly Trp Val Asn Ala Ser Thr Phe Thr Ser Cys Leu
                                       155
                   150
Leu Ser Leu Ser Phe Cys Gly Pro Asn Gln Ile Asp His Phe Phe Cys
                                   170
Asp Phe Ser Pro Leu Leu Lys Leu Ser Cys Ser Asn Ile Ser Ile Pro
                               185
Glu Ile Ile Pro Ser Ile Ser Ser Gly Ser Ile Ile Val Val Thr Val
                           200
Phe Ala Ile Ala Ile Ser Tyr Ile Tyr Ile Leu Ile Thr Ile Leu Lys
                       215
                                           220
Met Arg Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr Cys Thr Ser
                                      235
                   230
His Leu Ala Ala Val Thr Leu Tyr Tyr Gly Thr Ile Thr Phe Ile Tyr
               245 .
                                   250
Val Met Pro Lys Ser Ser Tyr Ser Thr Ser Gln Asn Arg Leu Ile Ser
                               265
           260
Leu Ser Tyr Thr Val Val Ile Pro Ile Leu Asn Pro Phe Ile Tyr Ser
                           280
Leu Arg Asn Arg Asp Val Lys Glu Ala Leu Arg Lys Ala Thr Val Arg
                       295
Ile Tyr Ser Xaa Asp Gln Phe Val
                    310
<210> 1220
<211> 324
<212> PRT
<213> Unknown (H38g137 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(324)
<223> Xaa = Any Amino Acid
<400> 1220
His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu Leu
                                   10
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser
                               25
Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser
Ile Pro Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro Thr Tyr Phe
                        55
Phe Leu Ser Ile Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr
                   70
Val Ser Lys Thr Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser
                                   90
His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys
           100
                              105
                                                  110
Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Gly
                          120
```

```
Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
                        135
                                            140
Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
                                        155
                    150
Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu
                                    170
               165
Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys
                                185
           180
Ser Asp Ser Val Ile Asn Ser Ile Phe Ile Tyr Phe Gly Ser Thr Met
                            200
                                                205
Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile
                                            220
                       215
Val Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala
                                        235
                   230
Phe Ser Thr Tyr Gly Ser His Leu Ala Val Phe Cys Xaa Phe Asp Gly
                                    250
               245
Thr Gly Ile Gly Val Tyr Leu Thr Ser Ala Val Ala Pro Pro Leu Arg
                                265
            260
Asn Gly Val Val Val Ser Val Met Xaa Ala Val Val Thr Pro Met Leu
       275
                           280
                                               285
Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu
                                           300
                      295
Arg Arg Leu Arg Ser Arg Thr Val Glu Ser Pro Xaa Ser Val Pro Ser
                   310
Phe Phe Trp Cys
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<210> 1221

<211> 318

<212> PRT

<213> Unknown (H38g138 protein)

<220>

<223> Synthetic construct

<400> 1221

Met Ile Gln Pro Met Ala Ser Pro Ser Asn Ser Ser Thr Val Pro Val 5 10 Ser Glu Phe Leu Leu Thr Cys Phe Pro Asn Phe Gln Ser Trp Gln His 25 20 Trp Leu Ser Leu Pro Leu Ser Leu Leu Phe Leu Leu Ala Met Gly Ala 40 Asn Thr Thr Leu Leu Ile Thr Ile Gln Leu Glu Ala Ser Leu His Gln 55 Pro Leu Tyr Tyr Leu Leu Ser Leu Leu Ser Leu Leu Asp Ile Val Leu 75 70 Cys Leu Thr Val Ile Pro Lys Val Leu Ala Ile Phe Trp Tyr Asp Leu 95 90 85 Arg Ser Ile Ser Phe Pro Ala Cys Phe Leu Gln Met Phe Ile Met Asn 100 105 · Ser Phe Leu Pro Met Glu Ser Cys Thr Phe Met Val Met Ala Tyr Asp 120 125 115 Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile Ile Thr 135 140 Asn Gln Phe Val Ala Lys Ala Ser Val Phe Ile Val Val Arg Asn Ala 155 150 Leu Leu Thr Ala Pro Ile Pro Ile Leu Thr Ser Leu Leu His Tyr Cys 175 165 170 Gly Glu Asn Val Ile Glu Asn Cys Ile Cys Ala Asn Leu Ser Val Ser 185 Arg Leu Ser Cys Asp Asn Phe Thr Leu Asn Arg Ile Tyr Gln Phe Val

```
200
Ala Gly Trp Thr Leu Leu Gly Ser Asp Leu Phe Leu Ile Phe Leu Ser
                       215
                                           220
Tyr Thr Phe Ile Leu Arg Ala Val Leu Arg Phe Lys Ala Glu Gly Ala
                   230
                                       235
Ala Val Lys Ala Leu Ser Thr Cys Gly Ser His Phe Ile Leu Ile Leu
                                   250
Phe Phe Ser Thr Ile Leu Leu Val Val Val Leu Thr Asn Val Ala Arg
                               265
Lys Lys Val Pro Met Asp Ile Leu Ile Leu Leu Asn Val Leu His His
                    280
                                        285
Leu Ile Pro Pro Ala Leu Asn Pro Ile Val Tyr Gly Val Arg Thr Lys
                295
                                           300
Glu Ile Lys Gln Gly Ile Gln Lys Leu Leu Gln Arg Gly Arg
                    310
<210> 1222
<211> 236
<212> PRT
<213> Unknown (H38g139 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(236)
<223> Xaa = Any Amino Acid
<400> 1222
Pro Lys Val Pro Asp Phe Phe Val Phe Gly Leu Arg Ala Ile Ser Phe
                5
                                   10
Pro Ala Gly Phe Leu Gln Lys Tyr Ile Lys Asn Cys Phe Gln Ala Met
                               25
Glu Phe Trp Pro Phe Lys Val Arg Ala Met Asp Arg Xaa Gly Thr Leu
                           40
Cys His Pro Leu Lys Tyr Pro Ser Ile Ile Thr Asp Pro Phe Gly Val
                                           60
                       55
Lys Ala Ala Arg Phe Ile Leu Pro Arg Asn Val Leu Met Thr Leu Pro
                   70
                                       75
Ile Pro Ile Leu Ser Ala Gln Leu Arg Tyr Cys Gly Arg Asn Val Ile
                                   90
Glu Asn Cys Ile Cys Ala Asn Met Ser Val Ser Arg Leu Ser Cys Asp
                               105
                                                   110
Asp Val Thr Ile Asn His Leu Tyr Gln Phe Ala Gly Gly Trp Thr Leu
                           120
                                               125
Leu Gly Ser Asp Leu Ile Leu Ile Phe Leu Ser Tyr Thr Phe Ile Leu
                       135
                                           140
Arg Ala Val Leu Arg Leu Lys Ala Glu Gly Ala Val Ala Lys Ala Leu
                   150
                                       155
Ser Thr Cys Gly Ser His Phe Met Leu Ile Leu Phe Phe Ser Thr Ile
                                   170
               165
Leu Leu Val Phe Val Leu Thr His Val Ala Lys Lys Val Ser Pro
            180
                               185
                                                   190
Asp Val Pro Val Leu Leu Asn Val Leu His His Val Ile Pro Ala Ala
                                               205
       195
                           200
Leu Asn Pro Ile Ile Tyr Gly Val Arg Thr Gln Glu Ile Lys Gln Gly
                       215
                                           220
Met Gln Arg Leu Leu Lys Lys Gly Cys Xaa Gln Gly
                   230
```

<210> 1223

```
<211> 308
 <212> PRT
 <213> Unknown (H38g140 protein)
 <223> Synthetic construct
 <400> 1223
 Met Asn Ser Leu Lys Asp Gly Asn His Thr Ala Leu Thr Gly Phe Ile
      5
 Leu Leu Gly Leu Thr Asp Asp Pro Ile Leu Arg Val Ile Leu Phe Met
             20
                                25
 Ile Ile Leu Ser Gly Asn Leu Ser Ile Ile Ile Leu Ile Arg Ile Ser
                      40
 Ser Gln Leu His His Pro Met Tyr Phe Phe Leu Ser His Leu Ala Phe
                        55
 Ala Asp Met Ala Tyr Ser Ser Ser Val Thr Pro Asn Met Leu Val Asn
                                    75
 Phe Leu Val Glu Arg Asn Thr Val Ser Tyr Leu Gly Cys Ala Ile Gln
                85
                                  90
 Leu Gly Ser Ala Ala Phe Phe Ala Thr Val Glu Cys Val Leu Leu Ala
            100
                                105
                                                   110
 Ala Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Ser Pro Leu Leu Tyr
                            120
                                               125
 Ser Thr Lys Met Ser Thr Gln Val Ser Val Gln Leu Leu Leu Val Val
                       135
                                           140
Tyr Ile Ala Gly Phe Leu Ile Ala Val Ser Tyr Thr Thr Ser Phe Tyr
                   150
                                       155
Phe Leu Leu Phe Cys Gly Pro Asn Gln Val Asn His Phe Phe Cys Asp
                                  170 . 175
               165
Phe Ala Pro Leu Leu Glu Leu Ser Cys Ser Asp Ile Ser Val Ser Thr
            180
                               185
Val Val Leu Ser Phe Ser Ser Gly Ser Ile Ile Val Val Thr Val Cys
                           200
                                               205
Val Ile Ala Val Cys Tyr Ile Tyr Ile Leu Ile Thr Ile Leu Lys Met
                       215
                                           220
Arg Ser Thr Glu Gly His His Lys Ala Phe Ser Thr Cys Thr Ser His
                   230
                                       235
Leu Thr Val Val Thr Leu Phe Tyr Gly Thr Ile Thr Phe Ile Tyr Val
               245
                                   250
Met Pro Asn Phe Ser Tyr Ser Thr Asp Gln Asn Lys Val Val Ser Val
           260
                               265
                                                  270
Leu Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu
                          280
                                              285
Arg Asn Lys Glu Ile Lys Gly Ala Leu Lys Arg Glu Leu Val Arg Lys
                      295
Ile Leu Ser His
305
<210> 1224
<211> 335
<212> PRT
<213> Unknown (H38g141 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(335)
<223> Xaa = Any Amino Acid
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<400> 1224
Asp Thr Asp Pro Gln Ser Leu Thr Asp Val Ser Ile Phe Leu Leu
                5
                                   10
Glu Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Val Ala Gly Leu Phe
                               25
           20
Leu Ser Met Cys Leu Val Met Val Leu Glu Asn Leu Leu Ile Ile Leu
                           40
Asp Val Ser Pro Asp Ser His Leu Pro Thr Pro Met Tyr Phe Phe Leu
                       55
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
                   70
                                       75
Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Tyr Ala Gly
                                   90
Cys Leu Thr Val Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu Glu
                               105
           100
Asn Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys
                                               125
                           120
His Pro Leu Tyr Arg Ser Ala Ile Leu Asn Pro Cys Phe Cys Gly Phe
                       135
                                           140
Leu Asp Leu Leu Ser Phe Phe Phe Phe Pro Arg Leu Leu Asp Ser Gln
                                      155
                   150
Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu
                                                       175
               165
                                   170
Ile Pro Asn Phe Phe Trp Glu Pro Ser Gln Leu Pro His Leu Ala Cys
                                                   190
                               185
Cys Asp Thr Phe Thr Arg Asn Ile Ser Met Tyr Phe Pro Ala Ala Val
       195
                           200
Phe Gly Phe Leu Ser Ile Ser Gly Thr Leu Phe Ser Tyr Cys Lys Met
                                            220
                        215
Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala
                   230
                                        235
Phe Ser Thr Xaa Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
                                   250
                245
Thr Gly Val Gly Glu Tyr Leu Gly Ser Asp Val Ser Ser Ser Pro Arg
                                                    270
                                265
            260
Lys Gly Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu
                           280
                                                285
        275
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Gly Asp Ile Lys Ser Val Leu
                                           300
                        295
Arg Arg Pro Gln Gly Ser Thr Val Ser Ser Gln Tyr Leu Leu Ile Cys
                   310
                                       315
Ser Ile Pro Phe Val Gly Trp Val Asn Lys Asp Ser Lys Val Lys
                                                        335
                325
<210> 1225
<211> 311
<212> PRT
<213> Unknown (H38g142 protein)
<223> Synthetic construct
<400> 1225
Met Gly Thr Gly Asn Asp Thr Thr Val Val Glu Phe Thr Leu Leu Gly
                                   10
Leu Ser Glu Asp Thr Thr Val Cys Ala Ile Leu Phe Leu Val Phe Leu
                               25
Gly Ile Tyr Val Val Thr Leu Met Gly Asn Ile Ser Ile Ile Val Leu
                           40
Ile Arg Arg Ser His His Leu His Thr Pro Met Tyr Ile Phe Leu Cys
```

```
His Leu Ala Phe Val Asp Ile Gly Tyr Ser Ser Ser Val Thr Pro Val
                   70
                                        75
Met Leu Met Ser Phe Leu Arg Lys Glu Thr Ser Leu Pro Val Ala Gly
                85
                                    90
Cys Val Ala Gln Leu Cys Ser Val Val Thr Phe Gly Thr Ala Glu Cys
            100
                               105
Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser
                            120
Pro Leu Leu Tyr Ser Thr Cys Met Ser Pro Gly Val Cys Ile Ile Leu
                        135
                                            140
Val Gly Met Ser Tyr Leu Gly Gly Trp Val Asn Ala Trp Thr Phe Ile
                    150
                                        155
Gly Cys Leu Leu Arg Leu Ser Phe Cys Gly Pro Asn Lys Val Asn His
                165
                                    170
Phe Phe Cys Asp Tyr Ser Pro Leu Leu Lys Leu Ala Cys Ser His Asp
           180
                               185
                                                    190
Phe Thr Phe Glu Ile Ile Pro Ala Ile Ser Ser Gly Ser Ile Ile Val
                           200
Ala Thr Val Cys Val Ile Ala Ile Ser Tyr Ile Tyr Ile Leu Ile Thr
                       215
                                           220
Ile Leu Lys Met His Ser Thr Lys Gly Arg His Lys Ala Phe Ser Thr
                   230
                                      235
Cys Thr Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Thr Ile Thr
               245
                                   250
Phe Ile Tyr Val Met Pro Lys Ser Ser Tyr Ser Thr Asp Gln Asn Lys
           260
                               265
Val Val Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
        275
                            280
                                                285
Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Gly Ala Leu Lys Arg Glu
                        295
                                            300
Leu Arg Ile Lys Ile Phe Ser
305
<210> 1226
<211> 314
<212> PRT
<213> Unknown (H38g143 protein)
<220>
<223> Synthetic construct
<400> 1226
Met Leu Leu Ser Asn Ser Ser Trp Arg Leu Ser Gln Pro Ser Phe Leu
Leu Val Gly Ile Pro Gly Leu Glu Glu Ser Gln His Trp Ile Ala Leu
           20
                               25
Pro Leu Gly Ile Leu Tyr Leu Leu Ala Leu Val Gly Asn Val Thr Ile
       35
                           40
                                               45
Leu Phe Ile Ile Trp Met Asp Pro Ser Leu His Gln Ser Met Tyr Leu
                       55
Phe Leu Ser Met Leu Ala Ala Ile Asp Leu Val Leu Ala Ser Ser Thr
                   70
                                       75
Ala Pro Lys Ala Leu Ala Val Leu Leu Val His Ala His Glu Ile Gly
               85
                                   90
Tyr Ile Val Cys Leu Ile Gln Met Phe Phe Ile His Ala Phe Ser Ser
           100
                               105
                                                   110
Met Glu Ser Gly Val Leu Val Ala Met Ala Leu Asp Arg Tyr Val Ala
                           120
                                    • •
                                              125
Ile Cys His Pro Leu His His Ser Thr Ile Leu His Pro Gly Val Ile
```

140

135

Gly Arg Ile Gly Met Val Val Leu Val Arg Gly Leu Leu Leu Ile

```
150
Pro Phe Pro Ile Leu Leu Gly Thr Leu Ile Phe Cys Gln Ala Thr Ile
                165
                                    170
Ile Gly His Ala Tyr Cys Glu His Met Ala Val Val Lys Leu Ala Cys
                                                     190
                                185
Ser Glu Thr Thr Val Asn Arg Ala Tyr Gly Leu Thr Met Ala Leu Leu
                            200
Val Ile Gly Leu Asp Val Leu Ala Ile Gly Val Ser Tyr Ala His Ile
                        215
                                             220
Leu Gln Ala Val Leu Lys Val Pro Gly Ser Glu Ala Arg Leu Lys Ala
                    230
                                         235
Phe Ser Thr Cys Gly Ser His Ile Cys Val Ile Leu Val Phe Tyr Val
                245
                                    250
Pro Gly Ile Phe Ser Phe Leu Thr His Arg Phe Gly His His Val Pro
            260
                                265
His His Val His Val Leu Leu Ala Thr Arg Tyr Leu Leu Met Pro Pro
                            280
                                                285
Ala Leu Asn Pro Leu Val Tyr Gly Val Lys Thr Gln Gln Ile Arg Gln
                        295
Arg Val Leu Arg Val Phe Thr Gln Lys Asp
                    310
<210> 1227
<211> 315
<212> PRT
<213> Unknown (H38g144 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(315)
<223> Xaa = Any Amino Acid
<400> 1227
Met Thr Lys Gly Asn Arg Thr Thr Val Thr Glu Phe Val Leu Met Gly
                                    10
Phe Thr Asp Arg Pro Glu Leu Gln Leu Pro Leu Phe Val Val Phe Leu
            20
                                25
Val Ile Tyr Leu Ile Thr Leu Val Gly Asn Leu Gly Met Ile Leu Leu
                            40
                                                45
Ile Arg Ala Asp Ser Arg Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
                        55
                                            60
His Leu Ala Phe Ile Asp Leu Cys Tyr Ser Ser Ser Ile Gly Pro Lys
                    70
Met Leu Gln Asn Val Leu Val Lys Lys Thr Ile Ser Phe Ser Gly
                85
                                    90
Cys Phe Ala Gln Leu Tyr Phe Ser Gly Ala Phe Ala Thr Thr Glu Xaa
           100
                                105
Phe Leu Leu Ala Thr Met Pro Tyr Asp Arg Tyr Val Ala Ile Cys Asn
                            120
                                                125
Pro Leu Ile Tyr Thr Ala Ile Met Thr Gln Arg Val Cys Arg Glu Leu
                        135
                                            140
Val Ile Gly Val Tyr Thr Tyr Gly Phe Arg Asn Ser Val Ile Gln Thr
                    150
                                        155
Ala Leu Thr Phe Gln Leu Ser Phe Cys Asn Ser Asp Val Ile His His
                165
                                    170
Phe Tyr Cys Ala Asp Pro Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr
           180
                               185
                                                    190
His Asn Lys Glu Lys Gln Leu Met Ile Phe Ser Ala Val Asn Leu Thr
                            200
                                                205
```

```
Gly Ser Leu Leu Thr Ile Phe Ile Ser Tyr Ile Cys Ile Leu Phe Ser
                        215
 Ile Ile Lys Ile Gln Ser Ser Glu Gly Lys Cys Arg Ala Phe Ser Thr
                     230
                                         235
 Arg Ala Ser His Leu Thr Val Val Thr Ile Phe Tyr Gly Thr Leu Phe
                 245
                                     250
 Phe Met Tyr Leu Gln Gln Pro Lys Ala Gly Asn Ser Trp Lys Pro Asn
            260
                                265
                                                    270
 Lys Val Val Ser Val Phe Tyr Ser Leu Val Ile Pro Met Leu Asn Pro
                           280
 Leu Ile Tyr Arg Leu Arg Asn Thr Glu Val Lys Asp Ala Leu Lys Lys
                  295
Met Leu Glu Gly Lys Glu Leu Xaa Xaa Val Ser
<210> 1228
<211> 202
 <212> PRT
<213> Unknown (H38g145 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(202)
<223> Xaa = Any Amino Acid
<400> 1228
Met Thr Thr His Arg Asn Asp Thr Leu Ser Thr Glu Ala Ser Asp Phe
                5
                                    10
Leu Leu Asn Cys Phe Val Arg Ser Pro Ser Trp Gln His Trp Leu Ser
            20
                                25
Leu Pro Leu Ser Leu Leu Phe Leu Leu Ala Val Gly Ala Asn Thr Thr
                            40
Leu Leu Met Thr Ile Trp Leu Glu Ala Ser Leu His Gln Pro Leu Tyr
                        55
                                            60
Tyr Leu Leu Ser Leu Leu Ser Lys Leu Asp Ile Val Leu Cys Leu Thr
                                        75
Val Ile Pro Lys Val Leu Thr Ile Phe Trp Phe Asp Leu Arg Pro Ile
                85
                                    90
Ser Phe Pro Ala Cys Phe Leu Gln Met Tyr Ile Met Asn Cys Phe Leu
            100
                                105
Ala Met Glu Ser Cys Thr Phe Met Val Met Ala Tyr Asp Arg Tyr Val
                           120
                                                125
Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile Ile Thr Asp His Phe
                       135
                                            140
Val Val Lys Ala Ala Met Phe Ile Leu Thr Arg Asn Val Leu Met Thr
                   150
                                       155
Leu Ala Ile Pro Ile Leu Ser Ala Gln Leu Leu Gly Thr Met Phe
               165
                                    170
Leu Lys Pro Phe Cys Gly Lys Cys Phe Val His Asn Phe Cys Gly Asp
           180
                                185
Ala Pro Xaa Xaa Pro Tyr Thr Phe Leu Lys
        195
<210> 1229
<211> 203
<212> PRT
<213> Unknown (H38g146 protein)
<220>
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## <223> Synthetic construct

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<400> 1229
Met Asn Glu Thr Asn His Ser Trp Val Thr Glu Phe Val Leu Leu Gly
                                    10
Leu Ser Ser Ser Arg Glu Leu Gln Pro Phe Leu Phe Leu Ile Phe Ser
                                25
Leu Leu Tyr Leu Ala Ile Leu Leu Gly Asn Phe Leu Ile Ile Leu Thr
                           40
Val Thr Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ala
Asn Leu Ser Phe Ile Asp Val Cys Val Ala Ser Ser Ala Thr Pro Lys
                   70
                                       75
Met Ile Ala Asp Phe Leu Val Glu His Lys Thr Ile Ser Phe Asp Ala
               85
                                   90
His Leu Ala Gln Ile Phe Phe Val His Leu Phe Thr Gly Ser Glu Met
           100
                               105
Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
       115
                           120
                                               125
Pro Pro His Tyr Met Thr Ile Met Ser Cys Cys Val Cys Val Val Leu
                       135
                                            140
Val Leu Ile Ser Trp Phe Val Gly Phe Ile His Thr Thr Ser Gln Leu
                   150
                                       155
Ala Phe Thr Val Asn Leu Pro Phe Cys Gly Pro Asn Lys Val Asp Ser
                                   170
Phe Phe Cys Asp Leu Pro Leu Ala Ser Lys Leu Ala Cys Ile Asp Thr
            180
                                185
Tyr Val Val Ser Leu Leu Ile Val Ala Asp Ser
                            200
```

<210> 1230

<211> 304

<212> PRT

<213> Unknown (H38g147 protein)

<220>

<223> Synthetic construct

<400> 1230

Met Ala Leu Ser Asn Ser Ser Trp Arg Leu Pro Gln Pro Ser Phe Phe 10 Leu Val Gly Ile Pro Gly Leu Glu Glu Ser Gln His Trp Ile Ala Leu Pro Leu Gly Ile Leu Tyr Leu Leu Ala Leu Val Gly Asn Val Thr Ile 40 Leu Phe Ile Ile Trp Met Asp Pro Ser Leu His Gln Ser Met Tyr Leu Phe Leu Ser Met Leu Ala Ala Ile Asp Leu Val Val Ala Ser Ser Thr 70 Ala Pro Lys Ala Leu Ala Val Leu Leu Val Arg Ala Gln Glu Ile Gly 85 90 Tyr Thr Val Cys Leu Ile Gln Met Phe Phe Thr His Ala Phe Ser Ser 105 Met Glu Ser Gly Val Leu Val Ala Met Ala Leu Asp Arg Tyr Val Ala 120 Ile Cys His Pro Leu His His Ser Thr Ile Leu His Pro Gly Val Ile 135 140 Gly His Ile Gly Met Val Val Leu Val Arg Gly Leu Leu Leu Ile 150 155 Pro Phe Leu Ile Leu Leu Arg Lys Leu Ile Phe Cys Gln Ala Thr Ile 170

```
Ile Gly His Ala Tyr Cys Glu His Met Ala Val Val Lys Leu Ala Cys
                                185
Ser Glu Thr Thr Val Asn Arg Ala Tyr Gly Leu Thr Val Ala Leu Leu
                                                205
                            200
Val Val Gly Leu Asp Val Leu Ala Ile Gly Val Ser Tyr Ala His Ile
                                            220
                        215
Leu Gln Ala Val Leu Lys Val Pro Gly Asn Glu Ala Arg Leu Lys Ala
                                        235
                    230
Phe Ser Thr Cys Gly Ser His Val Cys Val Ile Leu Val Phe Tyr Ile
                                    250
                245
Pro Gly Met Phe Ser Phe Leu Thr His Arg Phe Gly His His Val Pro
                                                    270
                                265
His His Val His Val Leu Leu Ala Ile Leu Tyr Arg Leu Val Pro Pro
                                                285
                           280
Ala Leu Asn Pro Leu Val Tyr Arg Val Lys Thr Gln Lys Ile His Gln
                        295
<210> 1231
<211> 110
<212> PRT
<213> Unknown (H38g148 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(110)
<223> Xaa = Any Amino Acid
<400> 1231
Ser His Thr Glu Pro Gln Asn Leu Thr Gly Val Ser Glu Phe Leu Leu
                                    10
                - 5
Leu Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Trp Leu
                                25
Ser Leu Ser Ile Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile
                            40
Leu Ala Val Ser Ser Asp Ser His Leu His Thr Pro Ile Tyr Phe Phe
                       55
Leu Phe Asn Leu Ser Leu Ala Asp Ile Gly Phe Thr Ser Ala Met Val
                    70
                                        75
Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr
                                    90
               85
Ala Gly Cys Leu Thr Xaa Met Ser Phe Phe Val Leu Phe Phe
                                105
<210> 1232
<211> 327
<212>' PRT
<213> Unknown (H38g149 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(327)
<223> Xaa = Any Amino Acid
<400> 1232
Phe Phe Ser Asn Asn Ser Val Leu Phe Pro His Thr Phe Phe Leu Ala
                5
                                   10
```

Gly Ile Pro Gly Leu Thr Ala Thr His Ile Trp Ile Leu Leu Pro Phe

```
25
Cys Phe Met Phe Phe Leu Ser Leu Thr Gly Asn Gly Val Leu Leu Phe
                            40
Leu Ile Arg Thr Glu Cys Ser Leu Arg Gln Pro Met Phe Leu Phe Leu
                        55
Ala Met Leu Ser Phe Val Asp Leu Val Leu Ser Leu Ser Thr Leu Pro
                    70
                                        75
Lys Met Leu Ala Ile Phe Trp Phe Gly Ala Thr Ala Ile Ser Ser His
                                    90
               85
Ser Cys Leu Ser Gln Met Phe Phe Ile His Ala Phe Ser Ala Met Glu
                                105
Ser Gly Val Leu Val Ala Met Ala Leu Asp Arg Ser Val Ala Ile Cys
                           120
                                               125
Asn Pro Leu Arg Tyr Ala Thr Ile Leu Pro Pro Val Val Ala Lys
                       135
                                           140
Ile Gly Gly Leu Val Val Leu Xaa Gly Val Gly Leu Thr Ile Ser Phe
                   150
                                       155
Pro Ser Leu Ala His Arg Leu His Tyr His Gly Ser His Met Ile Ala
                                    170
               165
Tyr Thr Phe Cys Glu His Met Ala Val Val Lys Leu Ala Cys Glu Ala
                                185
                                                    190
            180
Thr Thr Val Asp Asn Leu Tyr Ala Phe Val Val Ala Ile Phe Leu Gly
                            200
Gly Gly Asp Val Val Cys Ile Ala Tyr Ser Tyr Gly Leu Ile Val Arg
    210
                        215
                                            220
Thr Val Met His Phe Pro Ser Pro Glu Glu Arg Ala Lys Ala Gly Ser
                   230
                                        235
Thr Cys Thr Ala His Val Cys Val Ile Leu Phe Phe Tyr Gly Leu Gly
                                    250
               245
Phe Leu Ser Val Val Met Gln Arg Phe Gly Ala Pro Thr Ala Ser Thr
                                265
Ala Lys Val Ile Leu Ala Asn Leu Tyr Leu Leu Phe Pro Pro Ala Leu
                           280
                                               285
Asp Pro Ile Val Tyr Gly Met Glu Thr Lys Gln Ile Xaa Glu Arg Leu
                                          300
                       295
Leu Met Ile Leu Ser Pro Lys Gln Ile Glu Leu Thr Xaa Val Xaa Leu
                   310
                                        315
Ser Pro Ala Gly Leu Gln Gly
               325
<210> 1233
<211> 241
<212> PRT
<213> Unknown (H38g150 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(241)
<223> Xaa = Any Amino Acid
<400> 1233
Leu Arg Gln Leu His Asn Leu Phe Leu Pro Val Gly Phe Phe Leu Ser
                5
                                   10
Ser Tyr Ser Phe Xaa Val Ile Trp His Asn Leu Asn Ser Val Thr Lys
                                25
Phe Ser Ser Lys Thr Asp Glu Ser Lys Leu Lys Ser Xaa Cys Lys Val
Lys Ser Leu Phe Phe Thr Tyr Ala Gly Cys Cys Glu Lys Leu Leu Leu
                       55
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Ala Val Glu Lys Arg Asp Arg Ser Phe Leu Phe Ile His Phe Leu Leu
                                       75
                   70
His Xaa Ser Thr Ala Val Ser Asp His Ala Lys Val Glu Pro Gly Val
                                    90
               85
Gly Arg Arg Glu Arg Gly Xaa Gly Lys Ser His Xaa Leu Thr Leu Lys
                               105
           100
Xaa Asp Gly Phe Thr Phe Ser Gly Pro Gly Gln Cys Leu Leu Phe Leu
                           120
                                               125
Thr His Ile Lys Pro Leu Xaa Met His Leu Thr Met Gly Ala Ser Pro
                                           140
                       135
Leu Pro Glu Val Arg Pro Pro Asp Phe Phe Gln Phe Pro Val Val Pro
                   150
                                       155
His Asn Pro His Ser Trp Thr Phe Thr Gln Tyr Val Arg Leu Pro Ser
                                    170
               165
Trp Val Gln Ser Leu Ser Lys Gln Leu Thr His Phe Ser Phe His Gly
                               185
Gln Ser Phe Lys Ser Ala Tyr Ile Xaa Leu Ala Ile Ser Gly Ala Val
                           200
       195
Thr Pro Ile Leu Leu Gln Arg Pro Arg Gly Gln Ser Ser Val Ala Val
                                           220
                       215
Xaa His Ile Pro Asp Asp Arg Ile His Thr Leu Lys Pro Leu Ser Gly
                   230
                                       235
```

```
<210> 1234
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<220>

<223> Synthetic construct

<400> 1234 Met Ala Ser Pro Asn Asn Asp Ser Thr Ala Pro Val Ser Glu Phe Leu 10 Leu Ile Cys Phe Pro Asn Phe Gln Ser Trp Gln His Trp Leu Ser Leu 25 Pro Leu Ser Leu Leu Phe Leu Leu Ala Met Gly Ala Asn Thr Thr Leu 40 35 Leu Ile Thr Ile Gln Leu Glu Ala Ser Leu His Gln Pro Leu Tyr Tyr 55 60 Leu Leu Ser Leu Leu Ser Leu Leu Asp Ile Val Leu Cys Leu Thr Val 75 70 Ile Pro Lys Val Leu Ala Ile Phe Trp Phe Asp Leu Arg Ser Ile Ser 90 85 Phe Pro Ala Cys Phe Leu Gln Met Phe Ile Met Asn Ser Phe Leu Thr 100 105 110 Met Glu Ser Cys Thr Phe Met Val Met Ala Tyr Asp Arg Tyr Val Ala 125 120 Ile Cys His Pro Leu Arg Tyr Pro Ser Ile Ile Thr Asp Gln Phe Val 140 135 130 Ala Arg Ala Val Val Phe Val Ile Ala Arg Asn Ala Phe Val Ser Leu 150 155 Pro Val Pro Met Leu Ser Ala Arg Leu Arg Tyr Cys Ala Gly Asn Ile 170 Ile Lys Asn Cys Ile Cys Ser Asn Leu Ser Val Ser Lys Leu Ser Cys 185 180 Asp Asp Ile Thr Phe Asn Gln Leu Tyr Gln Phe Val Ala Gly Trp Thr 205 200 195 Leu Leu Gly Ser Asp Leu Ile Leu Ile Val Ile Ser Tyr Ser Phe Ile

<sup>&</sup>lt;211> 313

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Unknown (H38g151 protein)

```
220
                       215
Leu Lys Val Val Leu Arg Ile Lys Ala Glu Gly Ala Val Ala Lys Ala
                                235
                  230
Leu Ser Thr Cys Gly Ser His Phe Ile Leu Ile Leu Phe Phe Ser Thr
                                   250
               245
Val Leu Leu Val Leu Val Ile Thr Asn Leu Ala Arg Lys Arg Ile Pro
                                                    270
                                265
           260
Pro Asp Val Pro Ile Leu Leu Asn Ile Leu His His Leu Ile Pro Pro
                           280
Ala Leu Asn Pro Ile Val Tyr Gly Val Arg Thr Lys Glu Ile Lys Gln
                                           300
                       295
Gly Ile Gln Asn Leu Leu Lys Arg Leu
                   310
<210> 1235
<211> 135
<212> PRT
<213> Unknown (H38g152 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(135)
<223> Xaa = Any Amino Acid
<400> 1235
Lys Asp Leu Xaa Arg Arg Ser Asn Ile Asn Phe Arg Ile Glu Arg Leu
                                    10
1
Tyr Phe Phe Ile Xaa Gly Trp Glu Met Lys Met Gly Leu Xaa Asn Xaa
                                25
Leu Leu Met Phe Cys Glu Ser Phe Xaa Xaa Xaa Lys Thr Val Leu Arg
                            40
Ile Lys Gly Glu Gly Asp Met Ala Lys Ala Leu Gly Thr Cys Gly Ser
                        55
His Phe Ile Leu Ile Leu Phe Phe Thr Thr Val Leu Leu Val Leu Val
                   70
                                        75
Ile Thr Asn Leu Ala Arg Lys Arg Ile Pro Pro Asp Val Pro Ile Leu
                                    90
               85
Leu Asn Ile Leu His His Leu Ile Pro Pro Ala Leu Asn Pro Ile Val
                                105
Tyr Gly Val Arg Thr Lys Glu Ile Lys Gln Gly Ile Gln Asn Leu Leu
                           120
Arg Arg Leu Xaa Lys Ile Lys
                        135
    130
<210> 1236
<211> 319
<212> PRT
<213> Unknown (H38g153 protein)
<220>
<223> Synthetic construct
<400> 1236
Met Ala Pro Thr Asn Leu Thr Ser Ala Pro Val Phe Leu Leu Gly
                                   10
Leu Val Thr Glu Gln Thr Asp Ala His Pro Leu Leu Phe Leu Leu Cys
                                25
Leu Gly Ile Tyr Leu Leu Asn Ala Leu Ser Asn Leu Ser Met Val Ala
                            40
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Leu Val Arg Ser Asp Gly Ala Leu Arg Ser Pro Met Tyr Tyr Phe Leu
                        55
Gly His Leu Ser Leu Val Asp Val Cys Phe Thr Thr Val Thr Val Pro
                   70
                                        75
Arg Leu Leu Ala Gly Leu Leu His Pro Gly Gln Ala Ile Ser Phe Gln
                                    90
                85
Ala Cys Phe Ala Glu Met Tyr Phe Phe Val Ala Leu Gly Ile Thr Glu
                               105
           100
Ser Tyr Leu Pro Ala Ala Met Ser Tyr Asp Arg Ala Thr Ala Ala Cys
                                               125
                           120
Arg Pro Leu Arg Tyr Gly Ala Leu Val Thr His Gly Arg Cys Ala Ser
                      135
                                            140
Leu Val Arg Ala Ser Trp Ala Val Thr His Leu His Ser Leu Leu His
                                        155
                   150
Thr Leu Leu Ser Ala Leu Ser Tyr Pro Tyr Pro Thr Pro Val Arg
               165
                                    170
Pro Phe Phe Cys Asp Met Thr Val Met Leu Ser Leu Ala Thr Ser Asp
                               185
           180
Thr Ser Ala Ala Glu Thr Ala Ile Phe Ser Glu Gly Leu Ala Val Val
                           200
Leu Ala Pro Leu Leu Val Phe Leu Ser Tyr Ala Arg Ile Leu Val
                                           220
                      215
Ala Val Leu Gly Leu Pro Arg Pro Arg Arg Ala Phe Ser Thr Cys Gly
                   230
                                        235
Ala His Leu Val Ala Val Ala Val Ala Val Ala Leu Phe Phe Gly Ser
                                   250
               245
Val Leu Ser Val Tyr Phe Pro Pro Ser Ser Ala Tyr Ser Ala Arg Tyr
                                                    270
                               265
Asp Arg Leu Ala Ser Val Val Tyr Ala Val Ile Thr Pro Thr Leu Asn
                            280
Pro Phe Ile Asn Ser Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Lys
                                           300
                       295
Arg Gly Leu Arg Trp Arg Ala Ala Pro Gln Glu Ala Trp Arg Ala
                    310
<210> 1237
<211> 325
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<222> (1)...(325)
<223> Xaa = Any Amino Acid
<400> 1237
Met Phe Leu Pro Asn Asn Thr Gln Phe His Pro Ser Ser Phe Leu Leu
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Leu Gly Ile Pro Gly Leu Glu Thr Leu His Ile Trp Ile Gly Phe Pro
                                25
           20
Phe Cys Ala Val Tyr Ile Ile Ala Leu Ile Gly Arg Phe Thr Ile Leu
Leu Val Ile Lys Thr Asp Ser Ser Leu Tyr Gln Pro Met Phe Tyr Phe
                        55
Leu Ala Met Leu Ala Thr Ile Asp Leu Gly Leu Ser Thr Ala Thr Ile
                   70
                                        75
Pro Lys Met Leu Gly Ile Phe Trp Phe Ser Leu Arg Glu Ile Ile Cys
                                    90
Asp Ala Cys Leu Ile Gln Met Phe Phe Ile His Asn Phe Thr Gly Met
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100
                                105
                                                    110
Glu Ser Ala Ala Leu Val Gly Met Ala Tyr Asp His Phe Val Ala Ile
                                               125
                          120
Cys Asn Pro Leu Arg Tyr Ser Ile Ile Leu Thr Lys Lys Ala Val Ser
                       135
                                            140
Val Ile Gly Leu Gly Val Leu Val Arg Ser Phe Met Ser Val Ile Pro
                                       155
                   150
Phe Val Phe Leu Ile Leu Arg Leu Pro Phe Cys Gly Asp His Val Ile
                                    170
                                                        175
               165
Pro His Thr Asn Cys Glu His Met Gly Leu Ala His Leu Ser Cys Ser
                               185
                                                    190
Ser Ile Lys Ile Asn Ile Ile Tyr Gly Leu Gly Ala Ile Ser Ile Leu
                           200
       195
Val Phe Asp Ile Ile Ala Ile Ala Leu Ser Tyr Val Gln Ile Leu His
                        215
Ala Val Phe His Leu Pro Ser Cys Lys Ala Xaa Leu Lys Ser Leu Ser
                    230
                                        235
Thr Cys Gly Ser His Val Cys Val Ile Leu Ala Phe Tyr Thr Pro Ala
                245
                                    250
Leu Phe Ser Phe Val Thr His Arg Phe Gly Gln Asn Val Pro Arg Tyr
                                265
                                                    270
Ile His Ile Leu Leu Ala Asn Leu Tyr Val Val Pro Pro Met Leu
       275
                           280
Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Gln Ile Tyr Val Cys Val
                        295
                                           300
Lys Asn Ile Phe Leu Gln Lys Xaa Glu Ile Glu Lys Lys Ser His Leu
                   310
Ile His Ile Arg Arg
<210> 1238
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Ile Gly Ile Thr Gly Leu Glu Lys Ser Arg Thr Trp Ile Ser Ile Pro
            20
                               25
Phe Leu Ser Val Tyr Leu Leu Ser Trp Met Gly Asn Phe Thr Val Leu
                           40
Phe Phe Ile Lys Thr Glu Gln Ser Leu His Glu Pro Met Tyr Tyr Leu
                        55
Leu Ser Met Leu Ser Ile Ser Asp Leu Gly Leu Ser Leu Ser Ser Leu
                                        75
Pro Ile Thr Leu Gly Leu Phe Leu Phe Asp Val His Glu Ile His Ala
                                    90
Ala Pro Cys Phe Ala Xaa Glu Phe Phe Ile His Leu Phe Thr Val Ser
                               105
Glu Ala Ser Val Leu Ser Val Met Ala Phe Asp Trp Tyr Val Ala Ile
                                               125
                           120
His Ser Pro Leu Arg Tyr Ser Thr Ile Leu Thr Ser Pro Arg Ala Ile
                        135
```

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Lys Thr Gly Val Leu Leu Thr Ser Lys Asn Val Leu Leu Ile Leu Pro
                                       155
                   150
Leu Pro Phe Leu Leu Gln Arg Leu Arg Tyr Cys His Gln Asn Leu Leu
                                   170
                165
Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Met Cys Ser
                               185
           180
Asp Asn Thr Val Asn Val Val Tyr Gly Leu Cys Ala Gly Leu Ser Thr
                                                205
                            200
Met Leu Asp Leu Val Leu Ile Thr Phe Ser Xaa Ile Met Ile Leu Arg
                                            220
                       215
Ala Val Leu Gly Ile Ala Thr Pro Arg Gln Gln Phe Lys Ala Leu Asn
                   230
                                       235
Thr Cys Ile Ser His Ile Cys Ala Val Leu Ile Phe Tyr Val Pro Thr
                                    250
               245
Leu Ser Ala Ala Met Leu His Gln Phe Ala Arg Asp Val Ser Pro Met
                               265
Ile His Val Leu Met Ala Asp Ile Phe Leu Leu Val Pro Pro Leu Leu
                           280
        275
Asn Pro Ile Val Tyr Cys Val Lys Thr His Gln Ile Arg Glu Lys Val
                       295
Val Gly Lys Leu Cys Pro Lys Val Ser Xaa Ser Lys Glu Xaa Glu
<210> 1239
<211> 313
<212> PRT
<213> Unknown (H38g156 protein)
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Met Ser Ile Ile Asn Thr Ser Tyr Val Glu Ile Thr Thr Phe Phe Leu
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Val Gly Met Pro Gly Leu Glu Tyr Ala His Ile Trp Ile Ser Ile Pro
                                25
Ile Cys Ser Met Tyr Leu Ile Ala Ile Leu Gly Asn Gly Thr Ile Leu
                            40
                                               45
Phe Ile Ile Lys Thr Glu Pro Ser Leu His Glu Pro Met Tyr Tyr Phe
                                           60
                       55
Leu Ser Met Leu Ala Met Ser Asp Leu Gly Leu Ser Leu Ser Ser Leu
                   70
                                       75
Pro Thr Val Leu Ser Ile Phe Leu Phe Asn Ala Pro Glu Ile Ser Ser
               85
                                   90
Asn Ala Cys Phe Ala Gln Glu Phe Phe Ile His Gly Phe Ser Val Leu
                               105
           100
Glu Ser Ser Val Leu Leu Ile Met Ser Phe Asp Arg Phe Leu Ala Ile
       115
                            120
                                                125
His Asn Pro Leu Arg Tyr Thr Ser Ile Leu Thr Thr Val Arg Val Ala
                                            140
                       135
Gln Ile Gly Ile Val Phe Ser Phe Lys Ser Met Leu Leu Val Leu Pro
                                        155
                   150
Phe Pro Phe Thr Leu Arg Asn Leu Arg Tyr Cys Lys Lys Asn Gln Leu
                                   170
Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Ser
                               185
Asp Asn Arg Ile Asp Val Ile Tyr Gly Phe Phe Gly Ala Leu Cys Leu
                                                205
                           200
Met Val Asp Phe Ile Leu Ile Ala Val Ser Tyr Thr Leu Ile Leu Lys
                       215
                                            220
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Thr Val Pro Gly Ile Ala Ser Lys Lys Glu Gln Leu Lys Ala Leu Asn

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235
                   230
Thr Cys Val Ser His Ile Cys Ala Val Ile Ile Phe Tyr Leu Pro Ile
                                   250
Ile Asn Leu Ala Val Val His Arg Phe Ala Arg His Val Ser Pro Leu
                               265
Ile Asn Val Leu Met Ala Asn Val Leu Leu Leu Val Pro Pro Leu Thr
                           280
Asn Pro Ile Val Tyr Cys Val Lys Thr Lys Gln Ile Arg Val Arg Val
                       295
Val Ala Lys Leu Cys Gln Arg Lys Ile
                   310
<210> 1240
<211> 308
<212> PRT
<213> Unknown (H38g157 protein)
<220>
<223> Synthetic construct
<400> 1240
Met Val Asn Arg Asn Asn Val Thr Glu Phe Ile Leu Leu Gly Leu Ile
                                   10
Glu Asn Pro Lys Met Gln Lys Ile Ile Phe Val Val Phe Val Ile Tyr
                                25
           20
Ile Thr Thr Met Ile Gly Asn Val Leu Ile Val Val Thr Val Thr Ala
                            40
Ser Pro Ser Leu Arg Ser Pro Met Tyr Phe Tyr Leu Ala Tyr Leu Ser
                        55
Phe Ile Asp Ala Cys Tyr Ser Ser Val Asn Ala Pro Lys Leu Ile Thr
                   70
                                       75
Asp Ser Leu Tyr Glu Asn Lys Thr Ile Leu Leu Asn Gly Cys Met Thr
               85
                                   90
Gln Val Phe Gly Glu His Phe Phe Gly Gly Val Glu Val Ile Leu Leu
                               105
           100
Thr Val Met Ala Tyr Asp Arg Tyr Val Val Ile Cys Lys Pro Leu His
                            120
Tyr Thr Thr Ile Met Lys Gln His Val Cys Ser Leu Leu Val Gly Val
                       135
                                            140
Ser Trp Val Gly Gly Phe Leu His Ala Thr Val Gln Ile Leu Phe Ile
                                        155
                   150
Phe Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Met Trp
                                    170
                165
Asp Leu Asn Pro Leu Leu Asn Leu Val Cys Thr Asn Thr His Thr Leu
                                185
Gly Leu Phe Val Ala Ala Asn Ser Gly Phe Ile Cys Leu Leu Asn Phe
                           200
Leu Leu Leu Val Ser Tyr Met Val Ile Leu Tyr Ser Leu Arg Thr
                                           220
                       215
His Ser Leu Glu Ala Arg Cys Lys Ala Leu Ser Thr Cys Val Ser His
                                       235
                   230
Ile Thr Val Val Ile Leu Phe Phe Ile Pro Cys Ile Phe Val Tyr Met
                                   250
               245
Arg Pro Pro Ala Thr Leu Pro Ile Asp Lys Ala Val Ala Val Phe Tyr
                               265
Thr Met Ile Ala Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn
                                               285
                           280
Ala Gln Met Lys Asn Ala Ile Arg Lys Leu Cys Ser Arg Lys Ala Ile
                        295
Ser Ser Val Lys
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<210> 1241
<211> 321
<212> PRT
<213> Unknown (H38g158 protein)
<223> Synthetic construct
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Met Ala Tyr His Gly Asn Arg Gly Thr Phe His Pro Ala Thr Phe Phe
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Leu Ile Gly Ile Pro Gly Leu Glu Asp Val His Met Xaa Ile Ser Leu
           20
                              25
His Phe Cys Ser Val Tyr Leu Leu Ala Leu Leu Gly Asn Ala Thr Ile
                                      45
                          40
Leu Leu Val Ile Lys Ala Glu Gln Thr Leu Arg Glu Pro Met Phe Tyr
                   55
Phe Leu Ala Ile Leu Ser Thr Ile Asp Leu Ala Leu Ser Thr Thr Ser
                   70
Val Pro Arg Thr Leu Gly Ile Phe Trp Phe Asp Ala His Glu Ile Asn
                                   90
Phe Gly Ala Cys Val Ala Gln Met Phe Leu Ile His Ala Phe Thr Gly
                               105
           100
Met Glu Ala Glu Val Leu Val Ala Met Ala Phe Asp Arg Tyr Val Ala
                           120
                                              125
Ile Cys Asn Pro Leu His Tyr Thr Asn Ile Leu Thr Ser Arg Val Leu
                                         140
                       135
Val Gly Ile Thr Met Cys Ile Val Ile Arg Pro Val Leu Phe Thr Leu
                  150
                                       155
Pro Ile Ile Tyr Leu Ile Tyr Arg Leu Pro Phe Cys Gln Gly His Ile
                                                      175
               165
                                   170
Ile Ala His Ser Tyr Tyr Glu His Met Gly Ile Ala Lys Leu Ser Cys
                              185
           180
Gly Asn Ile Arg Val Asn Ala Ile Tyr Gly Leu Phe Val Val Ser Phe
                          200
                                              205
Tyr Leu Leu Asn Leu Val Leu Ile Val Ile Ser Tyr Val Tyr Ile Leu
                                   220
                      215
Cys Ala Val Phe Cys Leu Ala Ser His Asp Ala Arg Leu Lys Ala Leu
                                      235
                  230
Ser Thr Cys Gly Ser His Val Gly Val Ile Cys Val Phe Tyr Ile Pro
                                   250
               245
Ser Asp Phe Ser Phe Leu Thr His Xaa Phe Gly His Asn Ile Pro His
                               265
Tyr Met His Ile Leu Val Ala Thr Leu Tyr Leu Val Ile Pro Pro Ser
                           280
Leu Asn Pro Ile Ile Cys Gly Val Arg Thr Lys Trp Lys Arg Glu Arg
                       295
                                          300
Val Leu Tyr Val Leu Thr Lys Lys Xaa Asp Ser Asp His Val Leu Leu
305
                   310
                                       315
Leu
<210> 1242
<211> 162
<212> PRT
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<213> Unknown (H38g159 protein)

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<221> VARIANT
<222> (1)...(162)
<223> Xaa = Any Amino Acid
<400> 1242
Gly Thr Val Xaa Ile Leu Ser Pro Val Xaa Leu Pro Phe Tyr Asp Pro
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Asn Val Ile Ala His Phe Met Cys Asp Leu Asn Thr Leu Leu Lys Leu
                                25
Leu Cys Met Gly Thr Thr Asn Thr Leu Gly Phe Phe Val Ala Ala Asn
                            40
Gly Gly Phe Asn Tyr Leu Leu Asn Ile Ile Phe Leu Met Val Ser Xaa
                       55
Val Ala Ile Leu Cys Thr Leu Lys Thr His Ser Leu Glu Glu Arg Cys
                    70
Lys Ala Leu Ser Thr Cys Ile Ser His Thr Thr Val Val Ile Leu Phe
                                    90
                85
Phe Gly Phe Cys Ile Ser Val Tyr Leu Cys Pro Val Thr Leu Leu Pro
           100
                                105
Ile Asn Lys Ala Val Ala Val Phe Tyr Thr Met Ile Asn Pro Met Leu
                            120
Lys Pro Leu Val Tyr Thr Leu Arg Asn Ala Glu Val Lys Ser Ala Leu
                                            140
                        135
Arg Lys Leu Trp Val Lys Arg Xaa Thr Glu Glu Arg Asn Asn Pro Asn
                   150
Ile Arg
<210> 1243
<211> 311
<212> PRT
<213> Unknown (H38g160 protein)
<220>
<223> Synthetic construct
<400> 1243
Met Phe Tyr His Asn Lys Ser Ile Phe His Pro Val Thr Phe Phe Leu
                                    10
Ile Gly Ile Pro Gly Leu Glu Asp Phe His Met Trp Ile Ser Gly Pro
                                25
Phe Cys Ser Val Tyr Leu Val Ala Leu Leu Gly Asn Ala Thr Ile Leu
                            40
Leu Val Ile Lys Val Glu Gln Thr Leu Arg Glu Pro Met Phe Tyr Phe
                        55
Leu Ala Ile Leu Ser Thr Ile Asp Leu Ala Leu Ser Ala Thr Ser Val
                    70
Pro Arg Met Leu Gly Ile Phe Trp Phe Asp Ala His Glu Ile Asn Tyr
                                   90
               85
Gly Ala Cys Val Ala Gln Met Phe Leu Ile His Ala Phe Thr Gly Met
                               105
Glu Ala Glu Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
                            120
                                               125
Cys Ala Pro Leu His Tyr Ala Thr Ile Leu Thr Ser Leu Val Leu Val
                                            140
                       135
Gly Ile Ser Met Cys Ile Val Ile Arg Pro Val Leu Leu Thr Leu Pro
                                        155
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Met Val Tyr Leu Ile Tyr Arg Leu Pro Phe Cys Gln Ala His Ile Ile
                                   170
Ala His Ser Tyr Cys Glu His Met Gly Ile Ala Lys Leu Ser Cys Gly
                                185
           180
Asn Ile Arg Ile Asn Gly Ile Tyr Gly Leu Phe Val Val Ser Phe Phe
                                                205
                            200
Val Leu Asn Leu Val Leu Ile Gly Ile Ser Tyr Val Tyr Ile Leu Arg
                        215
                                           220
Ala Val Phe Arg Leu Pro Ser His Asp Ala Gln Leu Lys Ala Leu Ser
                                       235
                   230
Thr Cys Gly Ala His Val Gly Val Ile Cys Val Phe Tyr Ile Pro Ser
               245
                                   250
Val Phe Ser Phe Leu Thr His Arg Phe Gly His Gln Ile Pro Gly Tyr
                                265
                                                    270
           260
Ile His Ile Leu Val Ala Asn Leu Tyr Leu Ile Ile Pro Pro Ser Leu
                                                285
       275
                            280
Asn Pro Ile Ile Tyr Gly Val Arg Thr Lys Gln Ile Arg Glu Arg Val
                       295
  290
Leu Tyr Val Phe Thr Lys Lys
<210> 1244
<211> 315
<212> PRT
<213> Unknown (H38g161 protein)
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Met Glu Asn Arg Asn Asn Val Thr Glu Phe Val Leu Leu Gly Leu Thr
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Glu Asn Pro Lys Met Gln Lys Ile Ile Phe Val Val Phe Phe Val Ile
                                25
Tyr Ile Ile Thr Val Val Gly Asn Ala Leu Ile Val Val Thr Ile Thr
                            40
       35
Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Leu Phe Leu Ala Tyr Leu
                       55
                                           60
Ser Phe Ile Asp Ala Cys Tyr Ser Ser Val Asn Thr Pro Lys Leu Ile
                                       75
                   70
Thr Asp Ser Leu Tyr Gly Lys Asn Thr Ile Leu Phe Asn Gly Cys Met
               85
                                   90
Thr Gln Val Phe Gly Glu His Phe Phe Gly Gly Ala Glu Gly Ile Leu
                                                   110 .
           100
                                105
Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
                                                125
                            120
His Tyr Met Thr Ile Met Asn Gln Cys Val Tyr Ala Leu Leu Met Gly
                                           140
                        135
   130
Val Val Trp Met Gly Gly Phe Leu His Ala Thr Ile Gln Ile Leu Phe
                   150
                                       155
Ile Phe Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Met
               165
                                   170
Cys Asp Leu Asn Pro Leu Leu Asn Leu Ala Cys Thr Asp Thr His Met
                                                   190
                              185
          180
Leu Gly Leu Phe Ile Ala Ala Asn Ser Gly Phe Ile Cys Leu Leu Asn
       195
                            200
                                                205
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Phe Val Leu Leu Val Ser Tyr Val Val Ile Leu Arg Ser Leu Arg

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215
                                           220
Thr His Ser Leu Glu Ala Arg His Lys Ala Leu Ser Thr Cys Val Ser
                                      235
                  230
His Ile Thr Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Val Tyr
                                   250
               245
Met Arg Pro Ala Ala Thr Leu Pro Ile Asp Lys Ala Val Ala Ile Phe
                                                   270
                              265
           260
Tyr Thr Met Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
                                              285
                          280
Asn Ala Gln Met Lys Asn Ala Ile Arg Lys Leu Cys Ser Arg Lys Asp
                                   300
                      295
Ile Ser Gly Asn Lys Xaa Met Xaa Leu Glu Leu
                   310
<210> 1245
<211> 322
<212> PRT
<213> Unknown (H38g162 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(322)
<223> Xaa = Any Amino Acid
<400> 1245
Ser Asn Thr Gly Met Ser Ile Leu Asn Thr Ser Glu Met Glu Ile Ser
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Ile Phe Tyr Leu Val Gly Ile Pro Gly Leu Glu His Ala Asn Ile Trp
                               25
           20
Ile Ser Ile Pro Ile Cys Leu Met Tyr Thr Val Ala Ile Leu Gly Asn
Cys Thr Ile Leu Phe Phe Ile Lys Thr Glu Pro Ser Leu His Glu Pro
                                           60
                       55
Met Tyr Tyr Phe Leu Ser Met Leu Ala Leu Ser Asp Leu Gly Leu Ser
                   70
                                       75
Leu Ser Ser Leu Pro Thr Met Leu Arg Ile Phe Leu Phe Asn Ala Pro
                                   90
               85
Gly Ile Ser Pro Asp Ala Cys Ile Ala Gln Glu Phe Phe Ile His Gly
                               105
Phe Ser Ala Met Glu Ser Ser Val Leu Leu Ile Met Ser Phe Asp Arg
                                                125
                           120
Phe Ile Ala Ile Cys Asn Pro Leu Arg Tyr Thr Ser Ile Leu Thr Ser
                                            140
                       135
Ala Arg Val Ile Gln Ile Gly Leu Ala Phe Ser Leu Lys Asn Val Leu
                                       155
                   150
Leu Ile Leu Pro Phe Pro Phe Thr Leu Lys His Leu Lys Tyr Cys Lys
                                   170
               165
Lys Asn Leu Leu Ser Gln Ser Tyr Cys Leu His Gln Asp Val Met Lys
                               185
Leu Ala Cys Thr Asp Asn Lys Val Asn Ile Ile Tyr Gly Leu Phe Val
                           200
Ala Leu Thr Gly Ile Leu Asp Leu Thr Phe Ile Phe Met Ser Tyr Met
                                           220
                       215
Leu Ile Leu Lys Ala Val Leu Ser Ile Ala Ser Xaa Lys Lys Arg Leu
                                       235
                   230
Lys Val Leu Asn Thr Cys Val Ser His Ile Cys Ala Val Leu Ile Phe
                                   250
               245
Tyr Val Pro Ile Ile Ser Leu Ala Val Ile Tyr Arg Phe Ala Lys His
                                265
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Ser Phe Pro Ile Thr Arg Ile Leu Ile Ala Asp Ala Phe Leu Leu Val
                            280
Pro Pro Leu Met Asn Pro Ile Val Tyr Cys Val Lys Ser Gln Gln Ile
                       295
                                           300
Arg Asn Leu Val Leu Glu Lys Leu Cys Gln Lys Gln Ser Xaa Ser Gly
          310
                                       315
Cys Leu
<210> 1246
<211> 319
<212> PRT
<213> Unknown (H38g163 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(319)
<223> Xaa = Any Amino Acid
<400> 1246
Ser His Thr Glu Pro Gln Asn Leu Thr Gly Val Ser Glu Phe Leu Leu
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Leu Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Leu Leu Ala Gly Leu
           20
                               25
Phe Leu Ser Met Cys Leu Val Thr Met Leu Arg Glu Leu Leu Ile Ile
                           40
Leu Ala Val Thr Ser Asp Ser His Leu His Ile Pro Met Tyr Phe Phe
                       55
                                           60
Leu Ser Asn Leu Val Leu Gly His Asp Ile Gly Phe Thr Xaa Ala Thr
                                       75
                   70
Val Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser
               85
His Ala Gly Cys Leu Thr Gln Ile Pro Phe Phe Val Leu Phe Val Cys
                                                   110
           100
                               105
Ile Asp Asp Met Leu Leu Thr Val Met Ala Tyr Asp Xaa Phe Val Ala
                           120
                                               125
       115
Ile Cys His Pro Leu His Tyr Pro Val Ile Met Asn Pro His Leu Cys
                       135
                                           140
Val Phe Leu Val Leu Met Phe Phe Leu Ser Leu Leu Asp Ser Xaa Leu
                                       155
                   150
His Asn Trp Ile Val Gln Phe Thr Cys Phe Lys Asn Val Glu Ile Ser
               165
                                   170
Asn Phe Phe Cys Asp Xaa Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp
            180
                                185
                                                    190
Val Ile Ser Asn Ile Phe Ile His Leu Asp Ser Thr Ile Phe Gly Phe
                                               205
                           200
Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro Ser
                                           220
                       215
Ile Leu Arg Ile Pro Leu Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr
                   230
                                       235
Cys Gly Ser His Leu Ala Ile Val Cys Leu Phe Tyr Gly Thr Gly Ile
                                   250
               245
Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Ala Pro Arg Asn Gly Val
           260
                               265
Val Ala Ser Val Leu Tyr Ala Ile Val Thr Pro Met Leu Asn Pro Phe
                           280
                                               285
Ile Cys Ser Leu Arg Asn Arg Gly Ile Gln Ser Ala Leu Trp Arg Leu
                      295
                                           300
Cys Arg Arg Lys Val Xaa Ser His Asp Leu Phe His Pro Phe Ser
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305
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                                       315
<210> 1247
<211> 320
<212> PRT
<213> Unknown (H38g164 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(320)
<223> Xaa = Any Amino Acid
<400> 1247
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                                    10
Leu Thr Glu Phe Val Leu Leu Gly Leu Thr Ser Arg Pro Glu Leu Arg
Val Ala Phe Leu Ala Leu Phe Leu Phe Val Tyr Ile Ala Thr Val Val
                            40
Gly Asn Leu Gly Met Ile Ile Leu Ile Lys Val Asp Ser Arg Leu His
                        55
                                            60
Thr Pro Met Xaa Phe Phe Leu Ser Ser Leu Ser Ile Leu Asp Leu Cys
                    70
                                        75
Phe Ser Thr Asn Phe Thr Pro Lys Met Leu Glu Asn Phe Leu Ser Glu
                                    90
Lys Lys Thr Ile Ser Tyr Ala Gly Cys Leu Met Gln Cys Tyr Val Val
                                105
Ile Ala Val Leu Ala Glu His Cys Met Leu Ala Val Met Ala Tyr
                            120
                                                125
Asp Arg Tyr Met Ala Ile Cys Asn Pro Leu Leu Tyr Ser Ser Lys Met
                       135
                                            140
Ser Gln Gly Val Cys Val His Leu Val Ile Val Pro Tyr Val Tyr Gly
                    150
                                        155
Phe Leu Leu Ser Val Met Glu Thr Leu Arg Thr Tyr Asn Leu Ser Phe
                165
                                    170
Cys Gly Thr Asn Glu Ile Asn His Phe Tyr Cys Ala Asp Pro Pro Leu
           180
                                185
                                                    190
Ile Lys Leu Ala Cys Ser Asp Thr Tyr Ser Lys Glu Leu Ser Met Tyr
       195
                           200
Ile Val Ala Gly Tyr Ser Asn Val Gln Ser Leu Leu Ile Ile Leu Thr
                       215
Ser Tyr Met Phe Ile Leu Val Ala Ile Leu Arg Ser His Ser Ala Glu
225
                    230
                                       235
Gly Arg Lys Lys Ala Phe Ser Thr Cys Gly Ser His Leu Thr Val Val
               245
                                    250
Thr Ile Phe Tyr Gly Thr Leu Phe Cys Met His Leu Arg Arg Pro Thr
            260
                                265
                                                    270
Asp Glu Ser Val Glu Gln Gly Lys Met Val Ala Val Phe Tyr Thr Thr
                            280
Val Ile Leu Met Leu Asn Ser Met Ile Tyr Gly Leu Arg Asn Lys Asp
                        295
Val Lys Glu Ala Leu Lys Lys Ala Ile Gly Lys Gln Thr Leu Gly Lys
305
                    310
                                        315
<210> 1248
<211> 316
<212> PRT
<213> Unknown (H38g165 protein)
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<223> Synthetic construct <400> 1248 Arg Arg Met Gly Asn His Thr Ala Val Ser Leu Phe Leu Leu Trp Gly 10 Phe Ser Ser Phe Ser Asp Leu Gln Ser Leu Leu Phe Val Val Ile Leu 20 25 Leu Leu His Val Thr Ile Leu Ala Ala Asn Val Ser Ile Met Gly Ala 40 45 Ile Lys Leu Ser His Asn Leu His Thr Pro Met Tyr Phe Phe Leu Cys 55 Gly Leu Ser Phe Ser Glu Thr Cys Thr Thr Val Val Val Ile Pro Arg Met Leu Val Asp Phe Leu Ser Glu Ser Lys Thr Ile Ser Leu Pro Glu 85 90 Cys Ala Thr Gln Met Phe Phe Phe Leu Gly Phe Ala Ser Asn Asn Cys 100 105 Phe Ile Met Ala Ala Met Ser Tyr Asp Arg Tyr Thr Ala Ile His Asn 115 120 125 Pro Leu Gln Tyr His Thr Leu Met Thr Arg Lys Ile Cys Leu Gln Met 135 140 Met Met Ala Ser Trp Met Val Gly Phe Leu Phe Ser Leu Cys Ile Ile 150 155 Val Thr Val Phe Asn Leu Ser Leu Cys Asp Leu Asn Thr Ile Gln His 165 170 Tyr Phe Cys Asp Ile Ser Pro Val Val Ser Leu Ala Cys Asn Tyr Thr 185 180 Phe Tyr His Glu Met Ala Ile Phe Val Leu Ser Ala Phe Val Leu Val 200 Gly Ser Cys Ile Leu Ile Met Ile Ser Tyr Val Phe Ile Val Phe Ile 220 215 Val Ile Lys Met Pro Ser Ala Lys Gly Arg Ser Lys Ala Phe Ser Thr 230 235 Cys Ser Ser His Leu Thr Val Val Ser Ile His Tyr Gly Phe Ala Cys 250 Phe Val Tyr Leu Arg Pro Lys Asn Ser Asn Ser Phe Asp Glu Asp Met 265 Leu Thr Ala Met Ile Tyr Thr Ile Leu Met Pro Leu Leu Asn Pro Ile 280 285 Val Tyr Ser Leu Arg Asn Lys Glu Met Gln Ile Ala Leu Arg Lys Thr 295 Leu Gly Ser Val Phe Gly Val Phe Pro Gln Lys Thr <210> 1249 <211> 319 <212> PRT <213> Unknown (H38g166 protein) <220> <223> Synthetic construct <400> 1249 Met Ser Ala Tyr Asn Asn Thr Asn Ala Arg Pro Ser Thr Phe Ile Leu 10 Ile Gly Ile Pro Gly Leu Glu Ala Ala His Ile Trp Ile Ser Ile Pro 20 25 Phe Cys Val Val Tyr Leu Leu Ala Leu Leu Gly Asn Gly Ser Leu Leu 40 45

Phe Ile Ile Lys Thr Glu Pro Ser Leu His Glu Pro Met Tyr Leu Phe

```
60
                       55
Leu Cys Met Leu Ala Val Val Asp Leu Val Val Cys Ser Thr Ala Val
                70
                                        75
Pro Lys Leu Leu Ser Leu Phe Trp Phe His Asp Gly Glu Ile Arg Phe
                                    90
               85
Glu Thr Cys Leu Thr Gln Met Phe Leu Ile His Ser Cys Ser Thr Met
           100
                                105
Glu Ser Gly Phe Phe Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
                            120
                                                125
Cys Asn Pro Leu Arg His Ser Ala Ile Leu Thr Arg Ala Val Ile Gly
                                            140
                        135
Arg Val Gly Leu Ala Ile Val Leu Arg Gly Ile Ala Leu Leu Ser Pro
                                        155
                   150
145
His Ser Phe Leu Leu Arg Trp Leu Pro Tyr Cys Arg Thr His Ile Ile
                                    170
               165
Ser His Thr Tyr Cys Glu Phe Met Ala Leu Ile Arg Ile Ala Cys Ala
           180
                               185
Glu Thr Lys Phe Arg Arg Ala Tyr Ser Leu Ile Val Ala Phe Leu Thr
                           200
                                               205
Gly Val Val Asp Phe Ile Leu Ile Ile Tyr Ser Tyr Val Leu Ile Leu
                       215
                                           220
His Thr Val Phe Gln Leu Pro Ser Lys Asp Ala Arg Leu Lys Ser Leu
                   230
                                       235
Gly Thr Cys Gly Ser His Val Cys Val Ile Leu Val Ser Tyr Thr Pro
                                    250
               245
Ala Phe Phe Ser Phe Leu Thr His Arg Phe Gly His His Val Ala Pro
            260
                                265
                                                    270
His Phe His Ile Phe Val Ala Asn Ile Tyr Leu Leu Val Pro Pro Met
                            280
                                                285
Val Asn Pro Ile Ile Tyr Gly Val Arg Thr Lys Arg Ile Trp Asp Arg
                                           300
                      295
Phe Leu Lys Val Phe Ser Phe Ser Lys Pro Leu Ser Lys Ser Phe
                   310
<210> 1250
<211> 307
<212> PRT
<213> Unknown (H38g167 protein)
<220>
<223> Synthetic construct
<400> 1250
Met Leu Asn Phe Thr Asp Val Thr Glu Phe Ile Leu Leu Gly Leu Thr
                                    10
Ser Arg Arg Glu Trp Gln Val Leu Phe Phe Ile Ile Phe Leu Val Val
                                25
            20
Tyr Ile Ile Thr Met Val Gly Asn Ile Gly Met Met Val Leu Ile Lys
                            40
Val Ser Pro Gln Leu Asn Asn Pro Met Tyr Phe Phe Leu Ser His Leu
                                            60
                        55
Ser Phe Val Asp Val Trp Phe Ser Ser Asn Val Thr Pro Lys Met Leu
                   70
                                        75
Glu Asn Leu Leu Ser Asp Lys Lys Thr Ile Thr Tyr Ala Gly Cys Leu
               85
                                    90
Val Gln Cys Phe Phe Phe Ile Ala Leu Val His Val Glu Ile Phe Ile
                               105
                                                    110
           100
Leu Ala Ala Met Ala Phe Asp Arg Tyr Met Ala Ile Gly Asn Pro Leu
                                                125
                           120
Leu Tyr Gly Ser Lys Met Ser Arg Val Val Cys Ile Arg Leu Ile Thr
                        135
                                            140
```

Phe Pro Tyr Ile Tyr Gly Phe Leu Thr Ser Leu Ala Ala Thr Leu Trp 150 155 Thr Tyr Gly Leu Tyr Phe Cys Gly Lys Ile Glu Ile Asn His Phe Tyr 165 170 Cys Ala Asp Pro Pro Leu Ile Lys Met Ala Cys Ala Gly Thr Phe Val 185 Lys Glu Tyr Thr Met Ile Ile Leu Ala Gly Ile Asn Phe Thr Tyr Ser 195 200 205 Leu Thr Val Ile Ile Ile Ser Tyr Leu Phe Ile Leu Ile Ala Ile Leu 215 220 Arg Met Arg Ser Ala Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Gly 230 235 Ser His Leu Thr Ala Val Ile Ile Phe Tyr Gly Thr Leu Ile Phe Met 245 250 Tyr Leu Arg Arg Pro Thr Glu Glu Ser Val Glu Gln Gly Lys Met Val 260 265 Ala Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Met Ile Tyr 275 280 Ser Leu Arg Asn Lys Asp Val Lys Lys Ala Met Met Lys Val Ile Ser 295 300 Arg Ser Cys 305 <210> 1251 <211> 322 <212> PRT <213> Unknown (H38g168 protein) <220> <223> Synthetic construct <400> 1251 Met Thr Met Thr Glu Asn Pro Asn Gln Thr Val Val Ser His Phe 5 10 Phe Leu Glu Gly Leu Arg Tyr Thr Ala Lys His Ser Ser Leu Phe Phe 25 Leu Leu Phe Leu Leu Ile Tyr Ser Ile Thr Val Ala Gly Asn Leu Leu 40 Ile Leu Leu Thr Val Gly Ser Asp Ser His Leu Ser Leu Pro Met Tyr 55 His Phe Leu Gly His Leu Ser Phe Leu Asp Ala Trp Leu Ser Thr Val 70 75 Thr Val Pro Lys Val Met Ala Gly Leu Leu Thr Leu Asp Gly Lys Val 85 90 Ile Ser Phe Glu Gly Cys Ala Val Gln Leu Tyr Cys Phe His Phe Leu 100 105 110 Ala Ser Thr Glu Cys Phe Leu Tyr Thr Val Met Ala Tyr Asp Arg Tyr 115 120 125 Leu Ala Ile Cys Gln Pro Leu His Tyr Pro Val Ala Met Asn Arg Arg 135 140 Met Cys Ala Glu Met Ala Gly Ile Thr Trp Ala Ile Gly Ala Thr His 155 150 Ala Ala Ile His Thr Ser Leu Thr Phe Arg Leu Leu Tyr Cys Gly Pro 165 170 Cys His Ile Ala Tyr Phe Phe Cys Asp Ile Pro Pro Val Leu Lys Leu 185 Ala Cys Thr Asp Thr Thr Ile Asn Glu Leu Val Met Leu Ala Ser Ile 200 Gly Ile Val Ala Ala Gly Cys Leu Ile Leu Ile Val Ile Ser Tyr Ile 215 220 Phe Ile Val Ala Ala Val Leu Arg Ile Arg Thr Ala Gln Gly Arg Gln

993

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230
                                        235
Arg Ala Phe Ser Pro Cys Thr Ala Gln Leu Thr Gly Val Leu Leu Tyr
                                   250
                245
Tyr Val Pro Pro Val Cys Ile Tyr Leu Gln Pro Arg Ser Ser Glu Ala
                               265
           260
Gly Ala Gly Ala Pro Ala Val Phe Tyr Thr Ile Val Thr Pro Met Leu
       275
                           280
                                                285
Asn Pro Phe Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys His Ala Leu
                                           300
                       295
Gln Arg Leu Leu Cys Ser Ser Phe Arg Glu Ser Thr Ala Gly Ser Pro
                   310
Pro Pro
```

- <210> 1252
- <211> 322
- <212> PRT
- <213> Unknown (H38g169 protein)
- <220>
- <223> Synthetic construct
- <221> VARIANT
- <222> (1)...(322)
- <223> Xaa = Any Amino Acid
- <400> 1252 Lys Met Leu Asn Phe Thr Asp Val Thr Glu Phe Ile Leu Leu Gly Leu 10 Thr Ser Arg Arg Glu Trp Gln Val Leu Phe Phe Ile Val Phe Leu Val 20 25 Val Tyr Ile Ile Thr Val Val Gly Asn Ile Gly Met Met Leu Leu Ile 40 Lys Val Ser Pro Gln Leu Asn Ser Pro Met Tyr Phe Phe Leu Ser His 55 Leu Ser Phe Val Asp Val Trp Phe Ser Ser Asn Val Thr Pro Lys Met 75 Leu Glu Asn Leu Leu Ser Asp Lys Lys Lys Thr Ile Ser Tyr Ala Gly 90 Cys Leu Ala Gln Cys Phe Phe Phe Ile Ala Leu Val His Val Glu Ile 100 105 Phe Ile Leu Ala Ala Ile Ala Phe Asp Arg Tyr Thr Val Ile Gly Asn 120 125 Pro Leu Leu Tyr Gly Ser Lys Met Ser Arg Asp Val Cys Ile Arg Leu 140 135 Ile Thr Phe Pro Tyr Ile Tyr Gly Phe Leu Thr Ser Leu Thr Ala Thr 155 150 Leu Trp Thr Tyr Gly Leu Tyr Phe Cys Gly Lys Ile Glu Ile Asn His 165 170 Phe Tyr Cys Ala Asp Pro Pro Leu Ile Lys Met Ala Cys Ala Gly Thr 185 Phe Val Lys Glu Tyr Thr Met Leu Ile Leu Ala Gly Ile Asn Phe Thr 200 205 Tyr Ser Leu Thr Val Ile Ile Ile Ser Tyr Leu Phe Ile Leu Ile Ala 215 220 Ile Leu Arg Met Arg Ser Ala Glu Gly Arg Gln Lys Ala Phe Ser Thr 230 235

Cys Gly Ser His Leu Thr Ala Val Ile Ile Phe Tyr Gly Thr Leu Ile

Phe Met Tyr Leu Arg Arg Pro Thr Glu Glu Ser Val Glu Gln Gly Lys

265

245

260

250

PCT/US00/27582 WO 01/27158

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Met Val Ala Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Met
                                               285
                           280
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Lys Ala Met Met Lys Val
                                           300
                       295
    290
Ile Ser Arg Ser Cys Xaa Thr Lys Xaa Asn Gln Val Xaa Ile Asn Phe
                   310
305
Val Phe
<210> 1253
<211> 311
<212> PRT
<213> Unknown (H38g170 protein)
<220>
<223> Synthetic construct
<400> 1253
Met Ser Asn Ala Ser Leu Val Thr Ala Phe Ile Leu Thr Gly Leu Pro
                                  10
His Ala Pro Gly Leu Asp Ala Leu Leu Phe Gly Ile Phe Leu Val Val
                               25
           20
Tyr Val Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg
Val Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Thr Asn Leu
                                           60
                   55
Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Met Leu
                70
                                       75
Met Thr Leu Val Ser Pro Ser Gly Arg Ala Ile Ser Phe His Ser Cys
                85
                                    90
Val Ala Gln Leu Tyr Phe Phe His Phe Leu Gly Ser Thr Glu Cys Phe
                               105
           100
Leu Tyr Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala Ile Ser Tyr Pro
                          120
Leu Arg Tyr Thr Ser Met Met Ser Gly Ser Arg Cys Ala Leu Leu Ala
                       135
                                           140
Thr Gly Thr Trp Leu Ser Gly Ser Leu His Ser Ala Val Gln Thr Ile
                   150
                                       155
Leu Thr Phe His Leu Pro Tyr Cys Gly Pro Asn Gln Ile Gln His Tyr
                                                       175
                                   170
               165
Phe Cys Asp Ala Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser
                                                   190
                                185
           180
Ala Asn Val Met Val Ile Phe Val Asp Ile Gly Ile Val Ala Ser Gly
                                               205
                           200
Cys Phe Val Leu Ile Val Leu Ser Tyr Val Ser Ile Val Cys Ser Ile
                                           220
                       215
Leu Arg Ile Arg Thr Ser Asp Gly Arg Arg Arg Ala Phe Gln Thr Cys
                   230
                                       235
Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Val Pro Cys Val Val
                                  250
               245
Ile Tyr Leu Arg Pro Gly Ser Met Asp Ala Met Asp Gly Val Val Ala
                                                   270
           260
                               265
Ile Phe Tyr Thr Val Leu Thr Pro Leu Leu Asn Pro Val Val Tyr Thr
       275
                           280
Leu Arg Asn Lys Glu Val Lys Lys Ala Val Leu Lys Leu Arg Asp Lys
                       295
                                           300
Val Ala His Pro Gln Arg Lys
305
                   310
<210> 1254
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<211> 320

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<212> PRT
<213> Unknown (H38g171 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(320)
<223> Xaa = Any Amino Acid
<400> 1254
Gly Val Gly Leu Xaa Lys Leu Xaa Trp Gln Ile Ile Phe Ser Gly Asp
                                   10
Ser Phe Ser Thr Trp Glu Met Phe Ser Leu Ser Ile Leu Gln Leu Pro
                               25
Xaa Met Tyr Thr Val Ala Leu Ser Gly Thr Ser Ile Leu Ile Phe Leu
                           40
                                                45
Ile Xaa Thr Asp Phe Xaa Val His Thr Ser Leu Tyr Ser Phe Xaa Val
                                           60
                       55
Leu Ile Asp Ile Ala Ile Ser Val Val Lys Ile Gly Ile Glu Val Phe
                   70
                                       75
Ser Gly Lys Ile Asn Phe Ser His Thr Gly Cys Gly Thr Gln Ile Phe
                                    90
Phe Phe Leu Thr Ala Gly Ile Phe Lys Tyr Val Leu Leu Thr Tyr Met
                               105
Ala Tyr Asp His Asn Val Ala Ile Cys Asp Leu Arg Xaa Pro Thr Phe
                            120
Met Ser Asp Gln Val Phe Xaa Gln Trp Ala Val Glu Ser Trp Ile Gly
                        135
                                            140
Gly Lys Leu Ser Ser Leu Ala His Thr Ile Tyr Ile Phe His Leu Phe
                                       155
                   150
Ser Tyr Lys Ala Lys Glu Ile Ser His Leu Trp Pro Lys Leu Phe Xaa
                                    170
                165
Ser Ser Ser Val Gly Ile Pro Tyr Ile Gln Asn Asp Val Phe Phe Thr
                               185
Ile Ile Thr Phe Leu Phe Thr Leu Leu Pro Leu Thr Leu Thr Leu Ser
                            200
                                                205
Ser Lys Leu Ile Val Phe Thr Ile Leu His Met Asn Ser Ser Asn Gly
                                           220
                        215
Gly Ala Lys Ser Trp His Thr Tyr Cys Phe His Leu Ser Val Leu Ile
                   230
                                       235
Pro Cys Cys Gly Gln Ala Ile Phe Val Tyr Met Thr Ser Ser Ser Phe
                                   250
                245
Xaa Thr Val Asn Lys Tyr Gln Thr Met Ser Val Leu Thr Ala Xaa Leu
                               265
Tyr Pro Leu Leu Lys Pro Leu Ile Asp Ile Leu Lys Asn Ala Glu Val
                           280
Ala Gly Ala Trp Ser Lys Phe Leu Xaa Lys Lys Ala Leu Lys Ser Gln
                       295
                                           300
His Leu Ile Thr Arg Ser Cys Glu Asn Lys Xaa Thr Thr Glu Gln Ser
                    310
                                      315
<210> 1255
<211> 320
<212> PRT
<213> Unknown (H38g172 protein)
<223> Synthetic construct
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580

<221> VARIANT

<222> (1)...(320) <223> Xaa = Any Amino Acid <400> 1255 Met Leu Val Pro Lys Lys Met Val Arg Gly Asn Ser Thr Leu Val Thr 10 1 Glu Phe Ile Leu Leu Gly Leu Lys Asp Leu Pro Glu Leu Gln Pro Ile 25 Leu Phe Val Leu Phe Leu Leu Ile Tyr Leu Ile Thr Val Gly Gly Asn 40 Leu Gly Met Leu Val Leu Ile Arg Ile Asp Ser Arg Leu His Thr Pro 55 Met Tyr Phe Phe Leu Ala Ser Leu Ser Cys Leu Asp Leu Tyr Tyr Ser 75 70 Thr Asn Val Thr Pro Lys Met Leu Val Asn Phe Phe Ser Asp Lys Lys 90 Ala Ile Ser Tyr Ala Ala Cys Leu Val Gln Cys Tyr Phe Phe Ile Ala 105 100 Val Val Ile Thr Glu Tyr Tyr Met Leu Ala Val Met Ala Tyr Asp Arg 120 115 Tyr Val Ala Ile Cys Asn Pro Leu Leu Tyr Ser Ser Lys Met Ser Lys 140 135 Gly Leu Cys Ile Arg Leu Ile Ala Gly Pro Tyr Val Tyr Gly Phe Leu 155 150 Ser Gly Leu Met Glu Thr Met Trp Thr Tyr His Leu Thr Phe Cys Gly 175 165 170 Ser Asn Ile Ile Asn His Phe Tyr Cys Ala Asp Pro Pro Leu Ile Arg 185 190 180 Leu Ser Cys Ser Asp Thr Phe Ile Lys Glu Thr Ser Met Phe Val Val 205 200 Ala Xaa Phe Asn Leu Ser Ser Ser Leu Ile Ile Leu Ile Ser Tyr 220 215 Ile Phe Ile Leu Ile Ala Ile Leu Arg Met Arg Ser Ala Glu Ser Arg 235 230 Arg Lys Ala Phe Ser Thr Cys Gly Ser His Leu Val Ala Val Thr Val 255 245 250 Phe Tyr Gly Thr Leu Phe Cys Met Tyr Val Arg Pro Pro Thr Asp Arg 270 265 260 Ser Val Glu Gln Ser Lys Val Ile Ala Val Phe Tyr Thr Phe Val Ser 285 280 Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys 300 295 Gln Ala Phe Trp Lys Leu Ile Arg Arg Asn Val Leu Leu Lys Xaa Asn 310 <210> 1256 <211> 235 <212> PRT <213> Unknown (H38g173 protein) <220> <223> Synthetic construct <221> VARIANT <222> (1)...(235) <223> Xaa = Any Amino Acid <400> 1256 Met Leu Phe Ile Ser Gln Trp Gly Glu Arg Xaa Arg Val Arg Arg Asn 5 10 Val Gln Leu Met Thr Ala Phe Ile Leu Met Asp Leu Pro His Val Pro

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25
Ala Leu Asp Ala Pro Leu Phe Gly Val Phe Leu Val Val Tyr Val Leu
                            40
Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg Val Tyr Ser
                                            60
His Leu His Thr Pro Lys Tyr Tyr Phe Leu Thr Asn Leu Ser Phe Ile
                    70
                                       75
Asp Leu Trp Phe Phe Thr Val Met Val Pro Lys Met Pro Arg Thr Leu
                                    90
Leu Ser Leu Cys Gly Lys Ala Val Ser Phe His Ser Cys Met Thr Gln
            100
                                105
Leu Tyr Phe Phe Tyr Phe Leu Gly Ser Thr Glu Cys Leu Leu Tyr Thr
                           120
                                                125
Val Met Ser Tyr Asp Arg Tyr Arg Gly Asn Thr Gln His Phe Pro Gly
                        135
                                            140
Ser Glu Asn Leu Pro Thr Lys Xaa Ala Lys Cys Xaa Trp Pro Gly Gly
                                        155
                    150
His Thr Gly Leu Pro Leu Ile Ile Leu Ala Asp Leu Ser Gly Xaa Leu
                                    170
                165
Arg Val Asp Ser Ser Xaa Trp Ala Ile Gln Asn Xaa Xaa Tyr Asn Leu
                                185
                                                    190
Val Ile Gln Val Lys Phe Ile Thr Cys Ile Gly Leu Ser Ile Lys His
                            200
                                                205
Tyr Ser Lys Gln Leu Ala Gln Leu Xaa Phe Phe His Arg Leu Ser Lys
                        215
Thr Phe Leu Asn Ser Gln Leu Asp Phe Tyr Leu
                    230
<210> 1257
<211> 307
<212> PRT
<213> Unknown (H38g174 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1) ... (307)
<223> Xaa = Any Amino Acid
<400> 1257
Met Ile Thr Glu Phe Ile Leu Ile Gly Phe Ser Asn Leu Gly Asp Leu
Gln Ile Leu Leu Phe Phe Ile Phe Leu Leu Val Tyr Leu Thr Thr Leu
Met Ala Asn Thr Thr Ile Met Thr Val Ile His Leu Asp Arg Ala Leu
                            40
His Thr Pro Met Tyr Phe Phe Leu Phe Val Leu Ser Cys Ser Glu Thr
                        55
                                            60
Cys Tyr Thr Leu Val Ile Val Pro Lys Met Leu Thr Asn Leu Leu Ser
                    70
Ala Ile Pro Thr Ile Ser Phe Ser Gly Cys Val Val Gln Leu Tyr Leu
                                    90
Phe Val Gly Leu Ala Cys Thr Asn Cys Phe Leu Ile Ala Val Met Gly
                                105
Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Asn Tyr Thr Leu Ile
                            120
Val Ser Xaa Ala Thr Cys Met Gln Leu Val Leu Ala Ser Ser Phe Cys
                       135
Gly Phe Leu Thr Ser Val Ile Val Asn Ile Leu Val Phe Ser Val Leu
                                        155
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Leu Cys Ala Ser Asn Arg Ile Asn His Phe Phe Cys Asp Ile Ser Pro
                165
                                     170
 Val Ile Lys Leu Gly Cys Thr Asp Thr Asn Leu Lys Glu Met Val Ile
                                 185
 Phe Phe Leu Ser Ile Leu Val Leu Leu Val Pro Leu Val Leu Ile Phe
                             200
                                                 205
 Ile Ser Tyr Ile Phe Ile Val Ser Thr Ile Leu Lys Ile Ser Ser Val
                        215
                                            220
 Glu Gly Gln Cys Lys Ala Phe Ala Thr Cys Ala Ser His Leu Thr Val
 225
                    230
                                        235
 Val Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr
                245
                                     250
 Ser Leu Tyr Ser Ser Asp Lys Asp Arg Leu Val Ala Val Thr Tyr Thr
            260
                                265
 Val Ile Thr Pro Leu Leu Asn Pro Leu Val Tyr Thr Leu Arg Asn Lys
                            280
                                                285
 Glu Val Lys Met Ala Leu Arg Lys Val Leu Gly Arg Cys Leu Asn Ser
                        295
                                             300
Lys Thr Val
305
<210> 1258
<211> 157
<212> PRT
<213> Unknown (H38g175 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(157)
<223> Xaa = Any Amino Acid
<400> 1258
Ile Cys His Asn Arg Lys Val Ile Pro Ala Ser Met Xaa Asn Met Cys
                                    10
Xaa Phe Leu Leu Lys Val Ala Xaa Asp Asn Phe Leu His Val Leu Phe
            20
                                25
Ile Leu Ala Lys Thr Ala Pro Pro Leu Leu Phe Leu Xaa Glu Ile Pro
                            40
Ser Tyr Phe Ser Ser Pro Ser Xaa Ile Ile Val Leu Xaa Cys Leu Pro
                        55
                                            60
Xaa Phe Leu Lys Gln Leu Val Ile Leu Phe Val Phe Leu Leu Asn
                    70
                                        75
Xaa Ser Tyr Leu Thr Leu Ile Phe Met Leu Leu Thr Met Lys Ile Thr
               85
                                    90
Ser Ser Phe Lys Ala Ser Thr Val Ile Ser Cys Leu Gln Phe Pro Ser
            100
                                105
                                                    110
Lys Ala Thr Cys Met His Gly Val Phe Ser Ala Val Cys Ala Gln Met
                            120
                                                125
Xaa Pro Tyr Tyr Asn Gly Xaa Ile Ile Xaa His Pro Glu Ser Ile Thr
                        135
Glu Ser Lys Xaa Leu Thr Cys Val Asn Pro Xaa Phe Asn
                    150
<210> 1259
<211> 321
<212> PRT
<213> Unknown (H38g176 protein)
<220>
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<223> Synthetic construct
<221> VARIANT
<222> (1)...(321)
<223> Xaa = Any Amino Acid
<400> 1259
Gly Thr Lys Ser Ile Lys Leu Thr Ser Leu Ser Glu Phe Leu Leu Leu
                                    10
Glu Phe Ser Ser Leu Glu Glu Ile Gln Gln Ile Leu Phe Leu Val Cys
           20
                                25
Leu Trp Leu Tyr Leu Ile Val Leu Ser Gly Asn Ile Thr Thr Val Thr
                            40
Val Ile Arg Leu Asp Gln Ser Leu His Ile Pro Val Tyr Leu Phe Leu
                        55
Gly Ile Leu Ser Ile Ser Gly Thr Cys Tyr Thr Phe Val Ile Leu Pro
Lys Met Leu Ile Asp Leu Leu Ser Leu Leu Arg Thr Ile Ser Phe Ile
Asn Cys Ala Leu Gln Met Phe Phe Phe Leu Gly Phe Ala Val Thr Asn
           100
                               105
                                                    110
Phe Met Phe Leu Gly Met Thr Val Tyr Asp Ser Tyr Val Ala Ile Cys
                                               125
       115
                           120
His Pro Leu His Tyr Pro Val Leu Thr Ser Trp Gln Ile Cys Lys Gln
                       135
                                            140
Leu Ala Ala Thr Cys Ala Val Ile Val Phe Phe Cys Leu Phe Val Phe
                    150
                                        155
Thr Asp Arg Leu Leu Leu Arg Phe Ser Leu Leu Phe Cys Gly Pro Asn
                165
                                    170
                                                        175
Lys Ile Asn His Tyr Phe Cys Asp Ile Ser Leu Leu Ile Gln Leu Ala
                                185
Cys Thr Asp Thr Tyr Ile Arg Glu Leu Val Ile Phe Ile Gly Gly Ile
                            200
                                                205
Leu Ala Leu Thr Val Pro Leu Met Phe Ile Cys Ile Ser Tyr Gly Phe
                                            220
                        215
Ile Val His Thr Ile Leu Arg Ile Pro Ser Cys Glu Ser Lys Gln Lys
                                        235
                    230
Ala Ile Ser Thr Cys Ala Ser His Leu Ile Met Val Val His Tyr
                                    250
                245
Gly Cys Ala Ser Phe Val Asn Leu Xaa Pro Ser Ala Lys Xaa Ser Ser
                                265
Ser Lys Xaa Pro Ser Ser Lys Asn Arg Leu Val Thr Val Thr Tyr Thr
                           280
                                               285
Val Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Phe Lys Asn Lys
                                           300
                       295
Asn Val Gln Met Ala Ile Trp Lys Val Ile Cys Gln Gly Gly Phe Pro
305
                    310
                                        315
Pro
<210> 1260
<211> 317
<212> PRT
<213> Unknown (H38g177 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(317)
<223> Xaa = Any Amino Acid
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<400> 1260
 Met Arg Arg Asn Cys Thr Leu Val Thr Glu Phe Ile Leu Leu Gly Leu
                                     10
 Ala Asn His Arg Glu Leu Gln Ile Phe Leu Phe Thr Leu Phe Leu Thr
                                 25
 Ile Tyr Met Val Thr Val Ala Gly Asn Leu Gly Met Ile Ala Leu Ile
                             40
 Gln Ala Asn Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn
                         55
 Leu Ser Phe Val Asp Leu Cys Phe Ser Ser Asn Val Thr Pro Arg Met
                    70
 Leu Glu Ile Phe Leu Ser Glu Lys Lys Ser Ile Ser Tyr Pro Ala Arg
                85
                                    90
 Leu Val Gln Cys Tyr Leu Phe Ile Thr Leu Val His Val Glu Leu Tyr
            100
                                105
 Ile Leu Ala Val Met Ala Phe Asp Arg Tyr Met Ala Ile Cys Asn Pro
                            120
 Leu Leu Tyr Gly Ser Arg Met Ser Lys Ser Val Cys Ser Phe Leu Ile
                        135
                                           140
Thr Val Leu Tyr Val Tyr Gly Ala Leu Thr Gly Leu Met Glu Thr Met
                    150
                                        155
Trp Thr Tyr Asn Leu Ala Phe Cys Gly Pro Ser Glu Ile Asn His Phe
                165
                                    170
Tyr Cys Val Asp Pro Pro Leu Ile Lys Leu Ala Cys Ser Asp Thr Tyr
            180
                                185
                                                    190
Asn Lys Glu Val Ser Met Phe Val Val Ala Gly Phe Asn Phe Thr Tyr
                            200
                                                205
Pro Leu Leu Ile Leu Ile Ser Tyr Leu Tyr Ile Phe Pro Ala Thr
                                            220
Leu Arg Ile Cys Ser Thr Glu Gly Arg His Lys Ala Phe Ser Thr Cys
                    230
                                        235
Gly Ser His Leu Thr Ala Val Thr Ile Phe Tyr Ser Ala Leu Phe Phe
                245
                                    250
Met Tyr Leu Arg Arg Pro Ser Glu Glu Ser Met Glu Gln Gly Lys Met
                                265
Val Ala Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Met Ile
                            280
                                                285
Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Cys Lys Glu Leu
                       295
Phe Lys Arg Lys Leu Phe Ser Lys Xaa Thr Leu Leu Leu
                    310
<210> 1261
<211> 317
<212> PRT
<213> Unknown (H38g178 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(317)
<223> Xaa = Any Amino Acid
<400> 1261
Thr Asp Val Xaa Glu Phe Leu Leu Gly Leu Ser Glu Asp Pro Glu
                                    10
Leu Gln Pro Val Leu Ala Leu Leu Ser Leu Ser Leu Ser Met Tyr Leu
                                25
Val Thr Val Leu Arg Asn Leu Leu Ser Ile Leu Ala Val Ser Ser Asp
```

```
40
Ser Pro Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu Cys Trp
                        55
Pro Asp Ile Gly Phe Thr Ser Ala Met Val Pro Lys Met Ile Val Asp
Thr Gln Ser His Ser Arg Val Ile Ser His Ala Gly Cys Leu Thr Gln
                                    90
Met Ser Phe Leu Leu Val Ala Cys Ile Glu Gly Met Leu Leu Thr
                               105
Val Met Ala Tyr Asp Cys Phe Val Ala Ile Cys Arg Pro Leu His Tyr
                           120
                                                125
Pro Ile Ile Val Asn Pro His Leu Cys Val Phe Phe Val Leu Val Ser
                       135
                                            140
Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu
                   150
                                        155
Gln Leu Thr Ile Ile Lys Asn Val Glu Ile Ser Asn Leu Val Cys Asp
               165
                                   170
Pro Ser Gln Leu Leu Lys Leu Ala Cys Ser Asp Ser Val Ile Asn Asn
                               185
                                                 - 190
            180
Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly Phe Leu Pro Ile Ser
        195
                            200
Gly Ile Phe Leu Ser Tyr Tyr Lys Ile Val Pro Ser Ile Leu Arg Ile
                        215
                                            220
Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Cys His
                    230
                                        235
Leu Ala Val Val Cys Trp Phe Tyr Gly Thr Gly Ile Gly Leu Tyr Leu
                245
                                    250
Thr Ser Ala Gly Ser Pro Pro Pro Arg Asn Gly Val Val Ala Ser Val
            260
                                265
                                                    270
Met Tyr Ala Val Val Thr Pro Met Leu Asn Leu Phe Ile Cys Ser Leu
                            280
                                               285
Arg Asn Arg Asp Ile Gln Ser Ala Leu Arg Arg Leu Arg Ser Arg Ala
                       295
Val Glu Tyr Pro Xaa Ser Val Pro Ser Phe Phe Leu Cys
                   310
<210> 1262
<211> 314
<212> PRT
<213> Unknown (H38g179 protein)
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<223> Synthetic construct
Met Arg Gly Phe Asn Lys Thr Thr Val Val Thr Gln Phe Ile Leu Val
                                   10
Gly Phe Ser Ser Leu Gly Glu Leu Gln Leu Leu Phe Val Ile Phe
            20
                               25
Leu Leu Tyr Leu Thr Ile Leu Val Ala Asn Val Thr Ile Met Ala
                            40
Val Ile Arg Phe Ser Trp Thr Leu His Thr Pro Met Tyr Gly Phe Leu
                       55
                                            60
Phe Ile Leu Ser Phe Ser Glu Ser Cys Tyr Thr Phe Val Ile Ile Pro
                   70
                                       75
Gln Leu Leu Val His Leu Leu Ser Asp Thr Lys Thr Ile Ser Phe Met
                                   90
               85
Ala Cys Ala Thr Gln Leu Phe Phe Leu Gly Phe Ala Cys Thr Asn
                               105
Cys Leu Leu Ile Ala Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys
                           120
```

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His Pro Leu Arg Tyr Thr Leu Ile Ile Asn Lys Arg Leu Gly Leu Glu
                 135
Leu Ile Ser Leu Ser Gly Ala Thr Gly Phe Phe Ile Ala Leu Val Ala
                   150
                                       155
Thr Asn Leu Ile Cys Asp Met Arg Phe Cys Gly Pro Asn Arg Val Asn
               165
                                170
His Tyr Phe Cys Asp Met Ala Pro Val Ile Lys Leu Ala Cys Thr Asp
           180
                               185
Thr His Val Lys Glu Leu Ala Leu Phe Ser Leu Ser Ile Leu Val Ile
                           200
Met Val Pro Phe Leu Leu Ile Leu Ile Ser Tyr Gly Phe Ile Val Asn
                       215
                                           220
Thr Ile Leu Lys Ile Pro Ser Ala Glu Gly Lys Lys Ala Phe Val Thr
                   230
                                       235
Cys Ala Ser His Leu Thr Val Val Phe Val His Tyr Gly Cys Ala Ser
               245
                                   250
Ile Ile Tyr Leu Arg Pro Lys Ser Lys Ser Ala Ser Asp Lys Asp Gln
                   265
                                                  270
Leu Val Ala Val Thr Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Leu
                           280
Val Tyr Ser Leu Arg Asn Lys Glu Val Lys Thr Ala Leu Lys Arg Val
                       295
Leu Gly Met Pro Val Ala Thr Lys Met Ser
                   310
<210> 1263
<211> 314
<212> PRT
<213> Unknown (H38g180 protein)
<220>
<223> Synthetic construct
<400> 1263
Met Met Gly Gln Asn Gln Thr Ser Ile Ser Asp Phe Leu Leu Gly
                                   10
Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu
           20
                               25
Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu
                           40
                                              45
Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
                      55
                                          60
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Ile Pro Lys
                  70
Leu Leu Gln Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp
               85
                                  90
Cys Leu Thr Gln Met Tyr Phe Phe Leu Leu Phe Gly Asp Leu Glu Ser
           100
                              105
Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe
                           120
                                              125
Pro Leu His Tyr Thr Ala Ile Met Ser Pro Met Leu Cys Leu Ala Leu
                       135
                                           140
Val Ala Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr
```

170

Leu Leu Met Ala Arg Leu Cys Phe Cys Ala Asp Asn Val Ile Pro His

Phe Phe Cys Asp Met Ser Ala Leu Leu Lys Leu Ala Phe Ser Asp Thr

Arg Val Asn Glu Trp Val Ile Phe Ile Met Gly Gly Leu Ile Leu Val 195 200 205 Ile Pro Phe Leu Leu Ile Leu Gly Ser Tyr Ala Arg Ile Val Ser Ser

185

155

190

150

165

180

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220
                        215
Ile Leu Lys Val Pro Ser Ser Lys Gly Ile Cys Lys Ala Phe Ser Thr
                   230
                                       235
Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Val Ile
                245
                                    250
Gly Leu Tyr Leu Cys Ser Ser Ala Asn Ser Ser Thr Leu Lys Asp Thr
            260
                                265
Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
                           280
Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala Leu Ser Arg Val
                       295
Ile His Gln Lys Lys Thr Phe Phe Ser Leu
                    310
<210> 1264
<211> 275
<212> PRT
<213> Unknown (H38g181 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(275)
<223> Xaa = Any Amino Acid
<400> 1264
Thr Ile Ile Asn Val Asn Ile Ser Pro Glu Phe Val Leu Val Gly Phe
1
                                    10
Ser Ser Asp Ala Glu Ile Gln Ile Met Leu Phe Val Leu Ile Leu Val
            20
                                25
Ile His Leu Leu Thr Leu Thr Gly Lys Leu Val Met Ile Leu Glu Ile
                            40
Arg Ala Asp Ser His Leu Gln Arg Pro Met Tyr Phe Phe Leu Xaa His
                        55
Leu Ser Phe Leu Asp Leu Ser Tyr Ser Ser Val Thr Val Pro Arg Met
                    70
                                       75
Leu Gln Asn Phe Leu Ser Gly Arg Lys Ala Ser Gln Cys Gly Ala Ala
               85
                                    90
Ser Pro Ser Phe Phe Phe Thr Leu Ser Gly Gly Thr Glu Ala Cys Leu
            100
                                105
Phe Ser Ala Met Ala Tyr Asp His Tyr Ala Thr Ile Arg His Pro Val
                           120
                                                125
Val Tyr Thr Met Val Met Asn Arg Ser Leu Cys Met Val Ile Leu Arg
                        135
                                            140
Ile Ala Trp Ala Ala Gly Phe Leu Ile Ser Leu Met Asp Ser Leu Phe
                    150
                                        155
Thr His Lys Leu His Phe Cys Gly Pro Asp Ile Ile Pro Tyr Phe Arg
                                    170
                165
Cys Lys Leu Pro Pro Phe Phe Pro Leu Ser Tyr Ile Asp Pro Thr Val
            180
                                185
Asn Glu Ile Leu Leu Ala Val Ser Gln Ala Phe Trp Gly Leu Leu Thr
        195
                            200
                                                205
Leu Ser Leu Ile Phe Phe Ser Tyr Ser Arg Ile Thr Ser Val Ile Leu
                       215
                                            220
Ser Ile Cys Ser Ser Glu Gly Gln Gly Lys Ala Phe Ser Ala Cys Pro
                    230
                                       235
Ser His Leu Ala Val Val Leu Ser Phe Tyr Gly Thr Ala Phe Phe Arg
               245
                                   250
Tyr Pro Gly Ser Thr Ser Gly Ser Val Leu Gly Gln Val Val Ser Val
                                265
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Gln Tyr Ser
       275
<210> 1265
<211> 312
<212> PRT
<213> Unknown (H38g182 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(312)
<223> Xaa = Any Amino Acid
<400> 1265
Met Arg Arg Asn Phe Thr Leu Val Thr Glu Phe Ile Leu Leu Gly Leu
                         10
Thr Asn His Gln Glu Leu Gln Ile Leu Leu Phe Met Leu Phe Leu Ala
                              25
Ile Tyr Met Val Thr Val Ala Gly Asn Leu Ser Met Ile Ala Leu Ile
                                              45
                          40
Gln Ala Asn Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser His
                       55
Leu Ser Phe Leu Asp Leu Cys Phe Ser Ser Asn Val Thr Pro Lys Met
                                   75
                   70
Leu Glu Ile Phe Leu Ser Glu Lys Lys Ser Ile Ser Tyr Pro Ala Cys
                                   90
               85
Leu Val Gln Cys Tyr Leu Tyr Ile Ile Leu Val His Val Glu Ile Tyr
                              105
           100
Ile Leu Ala Val Met Ala Phe Asp Xaa Tyr Met Ala Ile Xaa Asn Pro
                                             125
                          120
Leu Leu Tyr Gly Ser Lys Met Ser Lys Ser Val Cys Ser Phe Leu Ile
                      135
                                          140
Thr Val Pro Tyr Val Tyr Gly Ala Leu Thr Gly Leu Met Glu Thr Met
                   150
                                      155
Trp Thr Tyr Asn Leu Ala Phe Cys Gly Pro Asn Glu Ile Asn His Phe
                                  170
              165
Tyr Cys Ala Asp Pro Pro Leu Ile Lys Leu Ala Cys Ser Asp Thr Tyr
                              185
          180
Asn Lys Glu Leu Ser Met Phe Val Val Ala Gly Trp Asn Leu Ser Phe
                                              205
                          200
Ser Leu Phe Ile Ile Phe Ile Ser Tyr Phe Tyr Ile Phe Pro Ala Ile
                                         220
                      215
Leu Arg Ile Arg Ser Thr Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys
                  230
                                       235
Gly Ser His Leu Thr Ala Val Thr Ile Phe Tyr Ala Thr Leu Phe Phe
               245
                                   250
Met Cys Leu Arg Pro Pro Ser Glu Glu Ser Met Glu Gln Gly Gln Met
                                                  270
                               265
           260
Val Ala Val Leu Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Met Ile
                          280
       275
Tyr Ser Leu Arg Asn Lys Asp Val Lys Lys Ala Leu Ser Lys Glu Leu
                       295
Phe Lys Arg Lys Leu Phe Pro Lys
                   310
<210> 1266
<211> 315
<212> PRT
<213> Unknown (H38g183 protein)
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<220>
<223> Synthetic construct
Met Glu Pro Glu Ala Gly Thr Asn Arg Thr Ala Val Ala Glu Phe Ile
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Leu Leu Gly Leu Val Gln Thr Glu Glu Met Gln Pro Val Val Phe Val
                                25
Leu Leu Leu Phe Ala Tyr Leu Val Thr Ile Gly Gly Asn Leu Ser Ile
                            40
Leu Ala Ala Val Leu Val Glu Pro Lys Leu His Ala Pro Met Tyr Phe
                       55
                                            60
Phe Leu Gly Asn Leu Ser Val Leu Asp Val Gly Cys Ile Thr Val Thr
                   70
                                       75
Val Pro Ala Met Leu Gly Arg Leu Leu Ser His Lys Ser Thr Ile Ser
                85
                                   90
Tyr Asp Ala Cys Leu Ser Gln Leu Phe Phe Phe His Leu Leu Ala Gly
                               105
           100
Met Asp Cys Phe Leu Leu Thr Ala Met Ala Tyr Asp Arg Leu Leu Ala
                           120
                                                125
Ile Cys Gln Pro Leu Thr Tyr Ser Thr Arg Met Ser Gln Thr Val Gln
                        135
                                            140
Arg Met Leu Val Ala Ala Ser Trp Ala Cys Ala Phe Thr Asn Ala Leu
                    150
                                        155
Thr His Thr Val Ala Met Ser Thr Leu Asn Phe Cys Gly Pro Asn Glu
                                    170
                165
Val Asn His Phe Tyr Cys Asp Leu Pro Gln Leu Phe Gln Leu Ser Cys
            180
                                185
Ser Ser Thr Gln Leu Asn Glu Leu Leu Leu Phe Val Ala Ala Ala Phe
                            200
Met Ala Val Ala Pro Leu Val Phe Ile Ser Val Ser Tyr Ala His Val
                                            220
                        215
Val Ala Ala Val Leu Gln Ile Arg Ser Ala Glu Gly Arg Lys Lys Ala
                    230
                                        235
Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Gly Ile Phe Tyr Gly
                                   250
               245
Thr Gly Val Phe Ser Tyr Met Arg Leu Gly Ser Val Glu Ser Ser Asp
           260
                               265
Lys Asp Lys Gly Val Gly Val Phe Met Thr Val Ile Asn Pro Met Leu
                           280
                                                285
       275
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Thr Asp Val Gln Gly Ala Leu
                       295
Trp Gln Leu Leu Val Gly Glu Arg Ser Leu Thr
                    310
<210> 1267
<211> 317
<212> PRT
<213> Unknown (H38g184 protein)
<223> Synthetic construct
<400> 1267
Met Leu Arg Asn Gly Ser Ile Val Thr Glu Phe Ile Leu Val Gly Phe
                                   10
Gln Gln Ser Ser Thr Ser Thr Arg Ala Leu Phe Ala Leu Phe Leu
                               25
Ala Leu Tyr Ser Leu Thr Met Ala Met Asn Gly Leu Ile Ile Phe Ile
                          40
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Thr Ser Trp Thr Asp Pro Lys Leu Asn Ser Pro Met Tyr Phe Phe Leu
Gly His Leu Ser Leu Leu Asp Val Cys Phe Ile Thr Thr Thr Ile Pro
Gln Met Leu Ile His Leu Val Val Arg Asp His Ile Val Ser Phe Val
Cys Cys Met Thr Gln Thr Tyr Phe Val Phe Cys Val Gly Val Ala Glu
                               105
           100
Cys Ile Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
                                               125
                           120
       115
Tyr Pro Leu Asn Tyr Val Pro Ile Ile Ser Gln Lys Val Cys Val Arg
                       135
                                           140
Leu Val Gly Thr Ala Trp Phe Phe Gly Leu Ile Asn Gly Ile Phe Leu
                                      155
                   150
Glu Tyr Ile Ser Phe Arg Glu Pro Phe Arg Arg Asp Asn His Ile Glu
                                   170
              165
Ser Phe Phe Cys Glu Ala Pro Ile Val Ile Gly Leu Ser Cys Gly Asp
                                                    190
                               185
          180
Pro Gln Phe Ser Leu Trp Ala Ile Phe Ala Asp Ala Ile Val Val Ile
                                               205
                           200
       195
Leu Ser Pro Met Val Leu Thr Val Thr Ser Tyr Val His Ile Leu Ala
                                           220
                       215
Thr Ile Leu Ser Lys Ala Ser Ser Ser Gly Arg Gly Lys Thr Phe Ser
                                       235
                   230
Thr Cys Ala Ser His Leu Thr Val Val Ile Phe Leu Tyr Thr Ser Ala
                                                       255
               245
                                   250
Met Phe Ser Tyr Met Asn Pro His Ser Thr His Gly Pro Asp Lys Asp
                               265
Lys Pro Phe Ser Leu Leu Tyr Thr Ile Ile Thr Pro Met Cys Asn Pro
                                               285
                           280
       275
Ile Ile Tyr Ser Phe Arg Asn Lys Glu Ile Lys Glu Ala Met Val Arg
                       295
                                           300
Ala Leu Gly Arg Thr Arg Leu Ala Gln Pro Gln Ser Val
                   310
<210> 1268
<211> 324
<212> PRT
<213> Unknown (H38g185 protein)
<220>
<223> Synthetic construct
<400> 1268
Met Phe Tyr Phe Phe Pro Pro Leu Gln Ile Leu Ala Glu Asn Leu Thr
                5
                                   10
Met Val Thr Glu Phe Leu Leu Leu Gly Phe Ser Ser Leu Gly Glu Ile
                                                    30
                               25
           20
Gln Leu Ala Leu Phe Val Val Phe Leu Phe Leu Tyr Leu Val Ile Leu
                                                45
                            40
Ser Gly Asn Val Thr Ile Ile Ser Val Ile His Leu Asp Lys Ser Leu
                        55
                                           60
His Thr Pro Met Tyr Phe Phe Leu Gly Ile Leu Ser Thr Ser Glu Thr
                   70
                                       75
Phe Tyr Thr Phe Val Ile Leu Pro Lys Met Leu Ile Asn Leu Leu Ser
                                   90
               85
Val Ala Arg Thr Ile Ser Phe Asn Cys Cys Ala Leu Gln Met Phe Phe
                               105
           100
Phe Leu Gly Phe Ala Ile Thr Asn Cys Leu Leu Gly Val Met Gly
                           120
                                               125
```

Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro Leu His Tyr Pro Thr Leu

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135
Met Ser Trp Gln Val Cys Gly Lys Leu Ala Ala Ala Cys Ala Ile Gly
                   150
                                       155
Gly Phe Leu Ala Ser Leu Thr Val Val Asn Leu Val Phe Ser Leu Pro
                                    170
Phe Cys Ser Ala Asn Lys Val Asn His Tyr Phe Cys Asp Ile Ser Ala
                               185
Val Ile Leu Leu Ala Cys Thr Asn Thr Asp Val Asn Glu Phe Val Ile
                           200
Phe Ile Cys Gly Val Leu Val Leu Val Val Pro Phe Leu Phe Ile Cys
                        215
                                           220
Val Ser Tyr Leu Cys Ile Leu Arg Thr Ile Leu Lys Ile Pro Ser Ala
                                       235
                   230
Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ser Val
                245
                                   250
Val Ile Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr
            260
                               265
                                                    270
Ala Asn Tyr Val Ser Asn Lys Asp Arg Leu Val Thr Val Thr Tyr Thr
        275
                                                285
                           280
Ile Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Leu Arg Asn Lys
                        295
                                            300
Asp Val Gln Leu Ala Ile Arg Lys Val Leu Gly Lys Lys Gly Ser Leu
Lys Leu Tyr Asn
<210> 1269
<211> 327
<212> PRT
<213> Unknown (H38g186 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(327)
<223> Xaa = Any Amino Acid
<400> 1269
Lys Leu Gln Leu Asn Asn Phe Thr Glu Val Thr Met Phe Ile Leu Ile
                                    10
Ser Phe Thr Glu Glu Phe Asp Val Gln Val Phe Leu Phe Leu Phe
                                25
Leu Ala Ile Tyr Leu Phe Thr Leu Ile Gly Asn Leu Gly Leu Val Val
Pro Ile Ile Gly Asp Phe Trp Leu His Ser Pro Met Tyr Tyr Phe Leu
                        55
Gly Val Leu Ser Phe Leu Asp Val Cys Tyr Ser Thr Val Val Thr Pro
                   70
Lys Met Leu Val Asn Phe Leu Ala Lys Asn Lys Ser Ile Ser Phe Leu
                                    90
Gly Cys Ala Thr Gln Met Phe Leu Ala Cys Thr Phe Gly Thr Thr Glu
                               105
Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Tyr
                           120
                                               125
Asn Pro Leu Leu Tyr Ser Val Ser Met Ser Pro Arg Val Tyr Val Pro
                       135
                                           140
Leu Ile Thr Ala Ser Tyr Val Ala Ser Ile Leu His Ala Thr Ile His
                   150
                                       155
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170

Thr Val Ala Thr Phe Ser Leu Ser Phe Cys Gly Ser Asn Glu Ile Arg

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His Val Phe Cys Asn Met Pro Pro Leu Leu Ala Ile Ser Cys Ser Asp
                               185
           180
Thr His Val Ile Gln Leu Leu Phe Phe Tyr Phe Val Gly Ser Ile Glu
                           200
                                               205
Ile Val Thr Ile Leu Ile Val Leu Ile Ser Tyr Gly Phe Ile Leu Leu
                                           220
                       215
Ala Ile Leu Lys Met Gln Ser Ala Glu Gly Arg Arg Lys Val Phe Ser
                                       235
                   230
Thr Cys Gly Ala His Leu Thr Gly Val Thr Ile Tyr His Gly Thr Ile
                                   250
                                                       255
              245
Leu Phe Met Tyr Val Arg Pro Ser Ser Ser Tyr Thr Ser Asp Asn Asp
                               265
                                                   270
           260
Met Ile Val Ser Ile Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro
                                               285
                           280
       275
Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Ile Lys Arg
                                           300
                       295
Leu Leu Val Arg Asn Trp Phe Ile Asn Lys Leu Xaa Phe Xaa Asn Xaa
                                       315
                310
305
Val Lys Leu Gln Ile Ile Leu
<210> 1270
<211> 319
<212> PRT
<213> Unknown (H38g187 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(319)
<223> Xaa = Any Amino Acid
<400> 1270
Met Asp Arg Val Asn Asn Ser Ala Val Ser Lys Phe Val Leu Ile Gly
                                   10
Leu Ser Lys Pro Pro Trp Glu Met His Leu Phe Leu Phe Trp Phe Phe
                               25
           20
Ser Val Phe Tyr Met Gly Ile Ile Leu Glu Asn Leu Phe Ile Val Phe
                                                45
                           40
Thr Val Ile Ile Asp Ser His Leu Asn Ser Pro Val Tyr Cys Leu Leu
                                           60
                       55
Ala Asn Ile Tyr Leu Leu Asp Leu Val Phe Ser Tyr Ser Ser Asp Phe
                                       75
                   70
Phe Thr Asn Cys Ser Ile Ile Ser Phe Pro Arg Cys Ile Ile Gln Ile
                                   90
               85
Phe Phe Ile Cys Val Met Arg Lys Ile Glu Met Val Leu Leu Ile Thr
                               105
           100
Met Ala Xaa Ser Arg Tyr Thr Ala Ile Cys Lys Pro Pro His Tyr Leu
       115
                                                125
                           120
Thr Thr Met Asn Pro Lys Met Cys Val Ser Leu Leu Glu Ala Ser Trp
                                           140
                        135
Ile Val Arg Ile Ile His Ala Val Ser Gln Phe Val Phe Ala Ile Asn
                                       155
                   150
```

Leu Pro Phe Cys Gly Pro Asn Arg Val Gly Ser Phe His Cys Asp Phe

Pro Tyr Val Met Lys Leu Ala Cys Val Asp Thr Tyr Lys Leu Glu Val 185 Val Val Thr Ala Asn Ser Gly Leu Ile Ser Ile Ala Thr Cys Phe Leu

200 Leu Ile Ile Ser Tyr Ile Phe Ile Ser Val Thr Val Xaa Asn Pro Ser

165

205

170

```
215
                                            220
Ser Gly Asp Leu Ser Lys Ala Phe Val Ser Cys Ser Asp His Ile Thr
                   230
                                        235
Val Gly Ile Leu Phe Phe Met Pro Cys Ile Phe Leu Tyr Val Xaa Pro
               245
                                    250
Leu Pro Lys Thr Thr His Asp Xaa Tyr Leu Phe Ile Val Pro Leu Leu
                                265
            260
Ser Pro Leu Ser Arg Ile Tyr Thr Leu Arg Asn Lys Asp Met Asn Val
                            280
Ser Met Glu Arg Leu Gly Lys Trp Ile Ala Gly Ser Ser Arg Met Ser
                       295
Xaa Xaa Met Val Leu Ser Arg Val Gln Asp Asp Ser Val Ser Pro
                    310
<210> 1271
<211> 324
<212> PRT
<213> Unknown (H38g188 protein)
<220>
<223> Synthetic construct
<400> 1271
Met Thr Thr Ile Ile Leu Glu Val Asp Asn His Thr Val Thr Thr Arg
                                    10
Phe Ile Leu Leu Gly Phe Pro Thr Arg Pro Ala Phe Gln Leu Leu Phe
            20
                                25
Phe Ser Ile Phe Leu Ala Thr Tyr Leu Leu Thr Leu Leu Glu Asn Leu
                            40
Leu Ile Ile Leu Ala Ile His Ser Asp Gly Gln Leu His Lys Pro Met
                        55
Tyr Phe Phe Leu Ser His Leu Ser Phe Leu Glu Met Trp Tyr Val Thr
                    70
                                        75
Val Ile Ser Pro Lys Met Leu Val Asp Phe Leu Ser His Asp Lys Ser
                85
                                    90
Ile Ser Phe Asn Gly Cys Met Thr Gln Leu Tyr Phe Phe Val Thr Phe
                               105
Val Cys Thr Glu Tyr Ile Leu Leu Ala Ile Met Ala Phe Asp Arg Tyr
                            120
                                                125
Val Ala Ile Cys Asn Pro Leu Arg Tyr Pro Val Ile Met Thr Asn Gln
                       135
                                           140
Leu Cys Gly Thr Leu Ala Gly Gly Cys Trp Phe Cys Gly Leu Met Thr
                   150
                                       155
Ala Met Ile Lys Met Val Phe Ile Ala Gln Leu His Tyr Cys Gly Met
               165
                                   170
                                                        175
Pro Gln Ile Asn His Tyr Phe Cys Asp Ile Ser Pro Leu Leu Asn Val
                               185
Ser Cys Glu Asp Ala Ser Gln Ala Glu Met Val Asp Phe Phe Leu Ala
                            200 .
Leu Met Val Ile Ala Ile Pro Leu Cys Val Val Val Ala Ser Tyr Ala
                        215
                                            220
Ala Ile Leu Ala Thr Ile Leu Arg Ile Pro Ser Ala Gln Gly Arg Gln
                    230
                                       235
Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Val Val Ile Leu Phe
               245
                                   250
Tyr Ser Met Thr Leu Phe Thr Tyr Ala Arg Pro Lys Leu Met Tyr Ala
                               265
Tyr Asn Ser Asn Lys Val Val Ser Val Leu Tyr Thr Val Ile Val Pro
                                               285
                           280
Leu Leu Asn Pro Ile Ile Tyr Cys Leu Arg Asn His Glu Val Lys Ala
                        295
```

Ala Leu Arg Lys Thr Ile His Cys Arg Gly Ser Gly Pro Gln Gly Asn

310

Gly Ala Phe Ser <210> 1272 <211> 323 <212> PRT <213> Unknown (H38g189 protein) <223> Synthetic construct <400> 1272 Met Met Gly Gln Asn Gln Thr Ser Ile Ser Asp Phe Leu Leu Gly 10 Leu Pro Ile Gln Pro Glu Gln Gln Asn Leu Cys Tyr Ala Leu Phe Leu 25 Ala Met Tyr Leu Thr Thr Leu Leu Gly Asn Leu Leu Ile Ile Val Leu 40 Ile Arg Leu Asp Ser His Leu His Thr Pro Val Tyr Leu Phe Leu Ser 55 60 Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys 70 75 Leu Leu Gln Asn Met Gln Asn Gln Asp Pro Ser Ile Pro Tyr Ala Asp 90 Cys Leu Thr Gln Met Tyr Phe Phe Leu Tyr Phe Ser Asp Leu Glu Ser 100 105 Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe 120 125 Pro Met His Tyr Thr Ala Ile Cys Phe Leu Leu His Tyr Thr Ala Ile 135 140 Met Ser Pro Met Leu Cys Leu Ser Val Val Ala Leu Ser Trp Val Leu 150 155 Thr Thr Phe His Ala Met Leu His Thr Leu Leu Met Ala Arg Leu Cys 165 170 Phe Cys Ala Asp Asn Val Ile Pro His Phe Phe Cys Asp Met Ser Ala 180 185 Leu Leu Lys Leu Ala Cys Ser Asp Thr Arg Val Asn Glu Trp Val Ile 200 Phe Ile Met Gly Gly Leu Ile Leu Val Ile Pro Phe Leu Leu Ile Leu 210 21.5 220 Gly Ser Tyr Ala Arg Ile Val Ser Ser Ile Leu Lys Val Pro Ser Ser 230 235 Lys Gly Ile Cys Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val 245 250 Val Ser Leu Phe Tyr Gly Thr Val Ile Gly Leu Tyr Leu Cys Pro Ser 260 265 Ala Asn Ser Ser Thr Leu Lys Asp Thr Val Met Ala Met Met Tyr Thr 280 Val Val Thr Pro Met Leu Thr Pro Phe Ile Tyr Ser Leu Arg Asn Arg 295 300 Asp Met Lys Gly Ala Leu Glu Arg Val Ile Cys Lys Arg Lys Asn Pro 305 310 315 Phe Leu Leu <210> 1273 <211> 311 <212> PRT <213> Unknown (H38g190 protein)

<220> <223> Synthetic construct <400> 1273 Met Gly Arg Arg Asn Asn Thr Asn Val Pro Asp Phe Ile Leu Thr Gly 10 Leu Ser Asp Ser Glu Glu Val Gln Met Ala Leu Phe Ile Leu Phe Leu 25 Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Ile Leu Ile 40 Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Ile Thr Pro Lys 70 75 Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Met Gly Cys 85 90 Phe Ala Gln Met Phe Phe Phe Val Phe Leu Gly Ala Ala Glu Cys Phe 100 105 Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Ser Pro 120 125 Leu Arg Tyr Pro Val Ile Met Ser Lys Arg Leu Cys Cys Ala Leu Val 135 140 Thr Gly Pro Tyr Val Ile Ser Phe Ile Asn Ser Phe Val Asn Val Val 150 155 Trp Met Ser Arg Leu His Phe Cys Asp Ser Asn Val Val Arg His Phe 170 165 Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Met Asp Thr Tyr 185 Asp Ile Glu Ile Met Ile His Ile Leu Ala Gly Ser Thr Leu Met Val 200 205 Ser Leu Ile Thr Ile Ser Ala Ser Tyr Val Ser Ile Leu Ser Thr Ile 215 220 Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Leu Ser Thr Cys 230 235 Ala Ser His Leu Gly Val Thr Ile Phe Tyr Gly Thr Met Ile Phe 250 Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln Val 265 Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu Ile 280 285 Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Leu Ile Arg Val Met 295 Gln Arg Arg Gln Asp Ser Arg <210> 1274 · <211> 305 <212> PRT <213> Unknown (H38g191 protein) <220> <223> Synthetic construct <400> 1274 Met Val Thr Glu Phe Ile Phe Leu Gly Leu Ser Asp Ser Gln Glu Leu 10 Gln Thr Phe Leu Phe Met Leu Phe Phe Val Phe Tyr Gly Gly Ile Val 20 25 Phe Gly Asn Leu Leu Ile Val Ile Thr Val Val Ser Asp Ser His Leu 40

```
His Ser Pro Met Tyr Phe Leu Leu Ala Asn Leu Ser Leu Ile Asp Leu
                        55
                                            60
Ser Leu Ser Ser Val Thr Ala Pro Lys Met Ile Thr Asp Phe Phe Ser
                    70
Gln Arg Lys Val Ile Ser Phe Lys Gly Cys Leu Val Gln Ile Phe Leu
                                    90
               85
Leu His Phe Phe Gly Gly Ser Glu Met Val Ile Leu Ile Ala Met Gly
                                105
           100
Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro Leu His Tyr Thr Thr Ile
                            120
                                               125
Met Cys Gly Asn Ala Cys Val Gly Ile Met Ala Val Thr Trp Gly Ile
                                            140
                       135
Gly Phe Leu His Ser Val Ser Gln Leu Ala Phe Ala Val His Leu Leu
                                        155
                   150
Phe Cys Gly Pro Asn Glu Val Asp Ser Phe Tyr Cys Asp Leu Pro Arg
               165
                                    170
Val Ile Lys Leu Ala Cys Thr Asp Thr Tyr Arg Leu Asp Ile Met Val
                               185
Ile Ala Asn Ser Gly Val Leu Thr Val Cys Ser Phe Val Leu Leu Ile
                            200
       195
Ile Ser Tyr Thr Ile Ile Leu Met Thr Ile Gln His Arg Pro Leu Asp
                                            220
                        215
Lys Ser Ser Lys Ala Leu Ser Thr Leu Thr Ala His Ile Thr Val Val
                                        235
                    230
Leu Leu Phe Phe Gly Pro Cys Val Phe Ile Tyr Ala Trp Pro Phe Pro
                                    250
               245
Ile Lŷs Ser Leu Asp Lys Phe Leu Ala Val Phe Tyr Ser Val Ile Thr
                                265
          260
Pro Leu Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys
                           280
                                               285
Thr Ala Ile Arg Gln Leu Arg Lys Trp Asp Ala His Ser Ser Val Lys
                        295
Phe
305
<210> 1275
<211> 312
<212> PRT
<213> Unknown (H38g192 protein)
<220>
<223> Synthetic construct
<400> 1275
Met Glu Arg Val Asn Glu Thr Val Val Arg Glu Val Ile Phe Leu Gly
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Phe Ser Ser Leu Ala Arg Leu Gln Gln Leu Leu Phe Val Ile Phe Leu
           20
                                25
Leu Leu Tyr Leu Phe Thr Leu Gly Thr Asn Ala Ile Ile Ser Thr
                                                45
       35
                            40
Ile Val Leu Asp Arg Ala Leu His Ile Pro Met Tyr Phe Phe Leu Ala
                                            60
                        55
Ile Leu Ser Cys Ser Glu Ile Cys Tyr Thr Phe Ile Ile Val Pro Lys
                    70
                                        75
Met Leu Val Asp Leu Leu Ser Gln Lys Lys Thr Ile Ser Phe Leu Gly
                85
                                    90
Cys Ala Ile Gln Met Phe Ser Phe Leu Phe Leu Gly Cys Ser His Ser
                               105
                                                    110
           100
Phe Leu Leu Ala Val Met Gly Tyr Asp Arg Tyr Ile Ala Ile Cys Asn
                            120
                                                125
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Pro Leu Arg Tyr Ser Val Leu Met Gly His Gly Val Cys Met Gly Leu

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140
                        135
Val Ala Ala Cys Ala Cys Gly Phe Thr Val Ala Gln Ile Ile Thr
                   150
                                       155
Ser Leu Val Phe His Leu Pro Phe Tyr Ser Ser Asn Gln Leu His His
               165
                                   170
Phe Phe Cys Asp Ile Ala Pro Val Leu Lys Leu Ala Ser His His Asn
                               185
His Phe Ser Gln Ile Val Ile Phe Met Leu Cys Thr Leu Val Leu Ala
                            200
Ile Pro Leu Leu Ile Leu Val Ser Tyr Val His Ile Leu Ser Ala
                       215
Ile Leu Gln Phe Pro Ser Thr Leu Gly Arg Cys Lys Ala Phe Ser Thr
                   230
                                       235
Cys Val Ser His Leu Ile Ile Val Thr Val His Tyr Gly Cys Ala Ser
               245
                                   250
Phe Ile Tyr Leu Arg Pro Gln Ser Asn Tyr Ser Ser Ser Gln Asp Ala
           260
                               265
Leu Ile Ser Val Ser Tyr Thr Ile Ile Thr Pro Leu Phe Asn Pro Met
                 280
        275
                                              285
Ile Tyr Ser Leu Arg Asn Lys Glu Phe Lys Ser Ala Leu Cys Lys Ile
                    295
Val Arg Arg Thr Ile Ser Leu Leu
                    310
<210> 1276
<211> 244
<212> PRT
<213> Unknown (H38g193 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(244)
<223> Xaa = Any Amino Acid
<400> 1276
Met Met Ile Ser Ser Asp Glu Glu Asn Asp Thr Asn Met Met Glu Phe
                                   10
Ile Leu Val Gly Leu Ser Arg Gln Pro Ala Ser Gln Leu Leu Phe Phe
           20
                               25
Xaa Ala Ile Leu Phe Ile Tyr Ser Val Thr Leu Val Gly Asn Ile Leu
                           40
                                               45
Ile Ile Val Ile Ile Gln Ile Asp Ser His Leu Gln Thr Pro Met Tyr
                       55
                                           60
Phe Phe Leu Ile-Gln Val Ser Phe Leu Asp Ile Cys Ser Thr Pro Thr
                    70
                                       75
Val Leu Val Asn Cys Xaa Lys Asp Phe Pro Ser Val Ser Tyr Ser Gly
                                   90
Cys Leu Phe Xaa Met Thr Ile Phe Leu Tyr Leu Gly Val Thr Glu Cys
            100
                               105
Val Phe Phe Leu Phe Cys Phe Glu Cys Phe Leu Ile Ala Val Met Ala
                           120
Tyr Asp Arg Phe Val Ala Ile Ser Lys Pro Leu Cys Tyr Pro Phe Ile
                       135
                                           140
Ile Asn Ser Asn Val Cys Ile Trp Met Val Ala Gly Val Trp Ala His
                  150
                                      155
Pro Gly Arg Thr Asn Pro Ile Leu Trp Pro Gln Cys Ser Gln His Phe
               165
                                  170
Thr Cys Glu Leu Gln Val Ile Phe Lys Leu Thr Cys Ser Pro Val Leu
                               185
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```
Val Lys Glu Ile Gln Xaa Phe Met Ile Pro Gly Cys Thr Leu Xaa Ala
                           200
       195
Leu Tyr Gln His Xaa Val Cys Ser Tyr Ser Xaa Ala Arg Gln Gln Thr
                       215
                                         220
His Pro Arg Ser Xaa Glu Ala Tyr Asn Xaa Gly Ile Arg Xaa Gly Ile
                                      235
                   230
Ile Gly Val His
<210> 1277
<211> 306
<212> PRT
<213> Unknown (H38g194 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(306)
<223> Xaa = Any Amino Acid
<400> 1277
Thr Ala Gly Ser Asn Phe Thr Glu Val Thr Val Phe Ile Leu Ser Gly
                       10
    5
Tyr Ala Asn His Pro Glu Leu Gln Val Ser Phe Phe Leu Met Phe Leu
                               25
Phe Ile Tyr Leu Phe Thr Ile Leu Gly Asn Leu Gly Leu Ile Met Leu
                                               45
                           40
Ile Arg Met Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                      55
Asn Leu Ala Phe Ile Asp Ile Phe Tyr Ser Ser Val Thr Pro Lys
                                      75
Thr Leu Ala Asn Phe Gln Ser Asn Gln Arg Ser Ile Ser Phe Val Gly
               85
                                  90
Cys Phe Val Gln Met Tyr Phe Ser Val Gly Leu Val Cys Thr Glu Cys
                              105
           100
Phe Leu Leu Gly Ser Met Ala Tyr Asp Cys Tyr Val Ala Ile Trp Asn
                                              125
                           120
Pro Tyr Ser Val Val Ile Ser Xaa Lys Ala Cys Asn Trp Leu Gly Val
                                          140
                      135
Met Ser Tyr Thr Ile Gly Phe Thr Asn Ser Leu Val Ser Val Trp Val
                                      155
                  150
Ile Ser Gly Leu Phe Cys Asp Ser Ser Ile Asn Phe Phe Cys Asp
                                                      175
                                  170
               165
Thr Thr Ala Leu Leu Ala Leu Ser Cys Val Asp Ala Phe Ser Thr Glu
                                                  190
                              185
           180
Met Val Ser Phe Ala Leu Ala Gly Phe Thr Leu Leu Gly Ser Ile Leu
                           200
                                              205
       195
Ile Ile Thr Val Thr Tyr Ile Ala Ile Thr Ser Ala Ile Leu Lys Asn
                                           220
                       215
Gln Trp Ala Ala Gly Trp Gln Lys Ala Phe Ser Thr Cys Ala Phe His
                   230
                                       235
Leu Met Ala Leu Thr Ile Phe Tyr Gly Ser Leu Ile Phe Thr Tyr Leu
                                   250
               245
Gln Leu Asp Lys Thr Ser Ser Leu Ile His Ala Gln Leu Ala Phe Val
           260
                               265
Phe Tyr Met Thr Val Ile Pro Met Leu Asn Pro Leu Ile Xaa Ser Leu
                          280
                                              285
Arg Asn Lys Asp Val Lys Asn Ala Leu Leu Arg Val Ile His Arg Lys
                                           300
                       295
  290
```

Leu Phe

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305
<210> 1278
<211> 251
<212> PRT
<213> Unknown (H38g195 protein)
<220>
<223> Synthetic construct
<400> 1278
Met Ala Asn Ser Ser Ser Val Thr Glu Phe Leu Val Leu Gly Phe Ser
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Ser Leu Gly Glu Leu Gln Leu Val Leu Phe Ala Val Phe Leu Cys Leu
                                25
            20
Tyr Leu Ile Ile Leu Ser Gly Asn Ile Ile Ile Ile Ser Val Ile His
                            40
Leu Asp His Ser Leu His Thr Pro Met Tyr Phe Phe Leu Gly Ile Leu
                       55
Ser Ile Ser Glu Ile Phe Tyr Thr Thr Val Ile Leu Pro Lys Met Leu
                                       75
Ile Asn Leu Phe Ser Val Phe Arg Thr Leu Ser Phe Val Ser Cys Ala
                                    90
Thr Gln Met Phe Phe Phe Leu Gly Phe Ala Val Thr Asn Cys Leu Leu
                                105
                                                   110
Leu Gly Val Met Gly Tyr Asp Arg Tyr Ala Ala Ile Cys Gln Pro Leu
       115
                           120
                                                125
Gln Tyr Ala Val Leu Met Ser Trp Arg Val Cys Gly Gln Leu Ile Ala
                       135
                                            140
   130
Thr Cys Ile Ile Ser Gly Phe Leu Ile Ser Leu Val Gly Thr Thr Phe
                   150
Val Phe Ser Leu Pro Phe Cys Gly Ser Asn Lys Val Asn His Tyr Phe
                                    170
                                                        175
Cys Asp Ile Ser Pro Val Ile Arg Leu Ala Cys Ala Asp Ser Tyr Ile
            180
                                185
                                                    190
Ser Glu Leu Val Ile Phe Ile Phe Gly Val Leu Val Leu Val Pro
                            200
       195
Leu Ile Phe Ile Cys Ile Ser Tyr Gly Phe Ile Val Arg Thr Ile Leu
                                            220
                        215
Lys Ile Pro Ser Ala Glu Gly Lys Gln Lys Ala Phe Ser Thr Cys Ala
                   230
                                        235
Ser His Leu Ile Val Val Ile Val His Tyr Gly
<210> 1279
<211> 315
<212> PRT
<213> Unknown (H38g196 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(315)
<223> Xaa = Any Amino Acid
<400> 1279
Met Gly Gly Leu Lys Arg Asp Asn Ala Ser Glu Met Thr Glu Leu Ile
                                    10
Leu Val Gly Phe Ala Gln His Pro Glu Ile Gln Thr Ala Phe Phe Leu
            20
                                25
```

Glu Leu Leu Phe Phe Tyr Xaa Ser Gln Leu Phe Glu Asn Ile Leu Ile 40 Val Ala Val Val Arg Xaa Asp Ser Arg Leu His Thr Pro Met Gly Phe Phe Phe Leu Ser Thr Leu Ser Ser Leu Glu Met Cys Tyr Ser Ile Ser 70 75 Trp Glu Leu Xaa Val Leu Ala Gln Cys Ile Lys Asp Phe Pro Thr Ile 90 Ser Tyr Asn Ser Cys Ser Val Gln Met Ile Thr His Leu Phe Leu Gly 100 105 Thr Ala Gln Cys Leu Leu Ala Gly Met Ala Tyr Asn Arg Phe Val 120 Glu Ile Ser Tyr Leu Leu His Tyr Thr Ile Ile Met Ser Asn Arg Val 135 140 Cys Ile Gln Leu Ala Leu Gly Ile Trp Thr His Ala Phe Leu Val Ala 145 150 155 Val Thr Leu Ile Ile Ala Ile Pro Ala Ser Tyr Tyr Gly His Asn Val 170 Ile Asn His Phe Thr Cys Glu Ile Gln Ala Leu Leu Lys Leu Val Cys Ser Asp Thr Leu Val Ser Leu Ile Gln Gly Leu Val Ile Ser Val Phe 195 200 Thr Leu Pro Leu Pro Phe Thr Phe Ile Leu Ile Ser Xaa Phe Cys Ile 215 220 Phe Val Arg Ala Val Glu Ala Arg Arg Glu Ala Phe Ser Thr Cys Gly 230 235 Ser His Leu Thr Gly Val Thr Ile Phe Tyr Gly Ala Ala Ile Cys Met 250 Tyr Leu Lys Pro Gln Ser Lys Gly Thr Gln Glu Glu Asp Lys Val Val 260 265 270 Ser Lys Leu Tyr Gly Ala Val Thr Pro Met Leu Asn Pro Pro Ile Tyr 280 285 Ile Gln Arg Asn Lys Asp Ile Lys Gly Ala Leu Arg Lys Leu Ala Lys 295 Gly Asn Glu Lys Ser Xaa Gln Phe Ser Leu Asn 305 310

<210> 1280

<211> 319

<212> PRT

<213> Unknown (H38g197 protein)

<220>

<223> Synthetic construct

<400> 1280

Met Asn His Val Val Lys His Asn His Thr Ala Val Thr Lys Val Thr 1 10 Glu Phe Ile Leu Met Gly Ile Thr Asp Asn Pro Gly Leu Gln Ala Pro Leu Phe Gly Leu Phe Leu Ile Ile Tyr Leu Val Thr Val Ile Gly Asn 40 Leu Gly Met Val Ile Leu Thr Tyr Leu Asp Ser Lys Leu His Thr Pro 55 Met Tyr Phe Phe Leu Arg His Leu Ser Ile Thr Asp Leu Gly Tyr Ser 70 75 Thr Val Ile Ala Pro Lys Met Leu Val Asn Phe Ile Val His Lys Asn 90 Thr Ile Ser Tyr Asn Trp Tyr Ala Thr Gln Leu Ala Phe Phe Glu Ile 105 Phe Ile Ile Ser Glu Leu Phe Ile Leu Ser Ala Met Ala Tyr Asp Arg

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115
                            120
 Tyr Val Ala Ile Cys Lys Pro Leu Leu Tyr Val Ile Ile Met Ala Glu
             135
                                           140
 Lys Val Leu Trp Val Leu Val Ile Val Pro Tyr Leu Tyr Ser Thr Phe
                   150
                                       155
 Val Ser Leu Phe Leu Thr Ile Lys Leu Phe Lys Leu Ser Phe Cys Gly
               165
                                   170
 Ser Asn Ile Ile Ser Tyr Phe Tyr Cys Asp Cys Ile Pro Leu Met Ser
                               185
 Ile Leu Cys Ser Asp Thr Asn Glu Leu Glu Leu Ile Ile Leu Ile Phe
        195
                            200
 Ser Gly Cys Asn Leu Leu Phe Ser Leu Ser Ile Val Leu Ile Ser Tyr
                        215
                                            220
Met Phe Ile Leu Val Ala Ile Leu Arg Met Asn Ser Arg Lys Gly Arg
                    230
                                        235
Tyr Lys Ala Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Ile Met
                245
                                    250
Phe Tyr Gly Thr Leu Leu Phe Ile Tyr Leu Gln Pro Lys Ser Ser His
            260
                                265
Thr Leu Ala Ile Asp Lys Met Ala Ser Val Phe Tyr Thr Leu Leu Ile
        275
                            280
                                                285
Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys
                       295
                                            300
Asp Ala Leu Lys Arg Thr Leu Thr Asn Arg Phe Lys Ile Pro Ile
                    310
                                        315
<210> 1281
<211> 157
<212> PRT
<213> Unknown (H38g198 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(157)
<223> Xaa = Any Amino Acid
<400> 1281
Phe Leu Lys Met Arg Leu Lys Glu Leu Met Xaa Asp Arg Thr Ile Met
                                    10
Asp Tyr Trp Arg Glu Gly Arg His Ile Xaa Gly Met Phe Leu Ala Phe
           20
                                25
Pro Phe Gly Xaa Pro Ile Pro Lys Leu Phe Leu Trp Val Ser Ile Arg
                            40
Asp Met Ala Val Thr Trp Met Asp His Arg His Glu Ser Cys Ser Pro
                       55
                                           60
Phe Leu Pro Lys Leu Gln Pro Phe Ser Ser Cys His Val Ser Glu Leu
                   70
                                      75
Cys Thr Cys Leu Asp Thr Phe Thr Lys Ser Tyr Ile Thr Xaa Ile Arg
                                   90
Gly Leu Lys Gly Phe Asn His Leu Cys Phe Leu Leu His Tyr Cys His
                               105
Cys Ala Arg Ala Gln Val Ser Xaa Asn Ala Pro Trp Ser Leu Ala Gln
                           120
Arg Cys Gln Pro Asn Met Leu Ile Arg Xaa Leu Phe Cys Leu Lys Leu
                      135
Val Val His Asp Arg Leu Xaa His Val Leu Ser Leu Leu
                   150
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<210> 1282

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<211> 317
 <212> PRT
 <213> Unknown (H38g199 protein)
 <223> Synthetic construct
<221> VARIANT
<222> (1)...(317)
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 1 '
       5
                                   10
Ile Thr Arg Arg Leu Glu Leu Gln Leu Ser Leu Phe Trp Val Phe Leu
            20
                                25
Ile Ile Cys Thr Phe Thr Val Val Ser Lys Glu Cys Ile Ile Leu
                           40
                                               45
Asn Asn Val Asp Leu Gly Leu Gln Thr Phe Val Tyr Phe Leu Ile Arg
                                         60
Tyr Leu Asn Phe Ile Asn Leu Gly Asn Ser Met Val Ile Tyr Pro Lys
65
                    70
Ile Leu Val Asn Phe Val Val Ala Gln Asn Ala Ile Pro Cys Tyr Ala
               85
                                    90
                                                      95
Cys Thr Met Gln Met Ala Phe Phe Ile Met Phe Ile Ile Cys Glu Leu
                               105
                                                  110
Phe Val Ser Ser Ala Met Ala Tyr Asp His Tyr Val Asp Ile His Ser
                           120
                                              125
Leu Leu Pro Xaa Asn Val Met Ser Gln Glu Leu Cys His Val Leu Val
                       135
Ala Ile Pro Tyr Leu Tyr Ser Thr Phe Gln Ala Leu Met Val Thr Ile
                   150
                                      155
Lys Ile Phe Ile Leu Ala Phe Tyr Gly Ser Asn Val Ile Ser Tyr Phe
                165
                                   170
                                                      175
Tyr Cys Xaa Asp Val Ser Leu Leu Ala Met Val Asp Ser Asn Ala Xaa
           180
                               185
Gly Ile Glu Met Leu Ile Thr Leu Phe Ser Val Leu Asn Leu Ile Phe
                           200
                                               205
Phe Leu Leu Val Val Leu Met Ser Ser Met Leu Ile Leu Leu Thr Val
                       215
                                          220
Cys Xaa Met His Ser Ala Gly Glu Gln Xaa Lys Thr Phe Phe Thr Tyr
                   230
                                       235
Val Ser Cys Leu Ile Val Val Val Phe Cys Gly Phe Leu Tyr Phe
               245
                                   250
Met Tyr Leu Gln Leu Lys Phe Ser Ser Phe Phe Asp Asn Asn Lys
           260
                               265
                                                  270
Met Thr Ser Met Phe Ser Ser Leu Val Ile Thr Met Leu Tyr His Leu
                           280
                                               285
Val Cys Ser Val Lys Asn Lys Gly Ser Lys Lys Asn Ala Phe Tyr Ser
                       295
Phe Phe Met Lys Gln Xaa Lys Leu Cys Asn Leu Met Val
                   310
<210> 1283
<211> 302
<212> PRT
<213> Unknown (H38g200 protein)
<220>
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603

<223> Synthetic construct

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<400> 1283
Met Thr Asn Leu Asn Ala Ser Gln Ala Asn His Arg Asn Phe Ile Leu
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Thr Gly Ile Pro Gly Thr Pro Asp Lys Asn Pro Trp Leu Ala Phe Pro
                                25
Leu Gly Phe Leu Tyr Thr Leu Thr Leu Gly Asn Gly Thr Ile Leu
                            40
Ala Val Ile Lys Val Glu Pro Ser Leu His Glu Pro Thr Tyr Tyr Phe
                        55
Leu Ser Ile Leu Ala Leu Thr Asp Val Ser Leu Ser Met Ser Thr Leu
                    70
                                        75
Pro Ser Met Leu Ser Ile Tyr Trp Phe Asn Ala Pro Gln Ile Val Phe
                85
                                    90
Asp Ala Cys Ile Met Gln Met Phe Phe Ile His Val Phe Gly Ile Val
            100
                               105
Glu Ser Gly Val Leu Val Ser Met Ala Phe Asp Arg Phe Val Ala Ile
        115
                            120
                                                125
Arg Asn Pro Leu His Tyr Val Ser Ile Leu Thr His Asp Val Ile Arg
                       135
                                            140
Lys Thr Gly Ile Ser Val Leu Thr Arg Ala Val Cys Val Val Phe Pro
                    150
                                        155
Val Pro Phe Leu Ile Lys Cys Leu Pro Phe Cys His Ser Asn Val Leu
                165
                                    170
                                                        175
Ser His Ser Tyr Cys Leu His Gln Asn Met Met Arg Leu Ala Cys Ala
            180
                                185
Ser Thr Arg Ile Asn Ser Leu Tyr Gly Leu Ile Val Val Ile Phe Thr
        195
                            200
                                                205
Leu Gly Leu Asp Val Leu Leu Thr Leu Leu Ser Tyr Val Leu Thr Leu
                        215
                                            220
Lys Thr Val Leu Gly Ile Val Ser Arg Gly Glu Arg Leu Lys Thr Leu
                    230
                                        235
Ser Thr Cys Leu Ser His Met Ser Thr Val Leu Leu Phe Tyr Val Pro
                245
                                    250
Phe Met Gly Ala Ala Ser Met Ile His Arg Phe Trp Glu His Leu Ser
                                265
Pro Val Val His Met Val Met Ala Asp Ile Tyr Leu Leu Pro Pro
                           280
Val Leu Asn Pro Ile Val Tyr Ser Val Lys Thr Lys Gln Ile
   290
                       295
<210> 1284
<211> 324
<212> PRT
<213> Unknown (H38g201 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(324)
<223> Xaa = Any Amino Acid
<400> 1284
His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu
                                   10
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser
                               25
Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser
                           40
Ile Pro Ala Val Ser Ser Asp Ser His Leu His Thr Pro Thr Tyr Phe
```

```
Phe Leu Ser Ile Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr
                    70
Val Pro Lys Met Ile Val Asp Met Gln Trp Tyr Ser Arg Val Ile Ser
                                    90
His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys
                                105
            100
Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Gly
                                               125
                           120
Ile Tyr Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys
                       135
Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln
                   150
                                       155
Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu
               165
                                   170
Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Ser
           180
                               185
Tyr Asp Ser Val Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met
       195
                            200
                                               205
Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Ser Ser Tyr Tyr Lys Ile
                        215
                                            220
Val Pro Ser Ile Leu Arg Met Ser Ser Ser Asp Gly Lys Tyr Lys Thr
                    230
                                        235
Phe Ser Thr Tyr Gly Ser His Leu Ala Phe Val Cys Xaa Phe Tyr Gly
               245
                                    250
                                                        255
Thr Gly Ile Asp Met Tyr Leu Ala Ser Ala Met Ser Pro Thr Pro Arg
           260
                                265
                                                    270
Asn Gly Val Val Val Ser Val Met Xaa Ala Val Val Thr Pro Met Leu
                            280
Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu
                       295
                                          300
Arg Arg Leu Arg Ser Arg Thr Val Glu Ser Pro Xaa Ser Val Pro Ser
                                       315
                    310
Phe Phe Trp Cys
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<210> 1285
```

## <400> 1285

Phe Ser Val Thr Gly Ile Ser Val Val Asp Cys Cys Phe Xaa Ser Thr 10 Val Ile Pro Glu Met Leu Phe Ser Cys Gln Val Gln His Leu Val His 25 35 40 Leu Leu Thr Phe Phe Xaa Lys Ile Ser Phe His Arg Met His Phe Cys 55 60 Ile Arg Asp Ser Ser Ser Gly Lys Ile Thr Val Tyr Tyr Leu Xaa Phe 70 75 Tyr Ile Cys Gly Gln Ile Val Leu Glu Gln Val Lys His Ile Xaa Glu 90 Xaa Ser Leu Ser Leu Glu Phe Val Ile Phe Xaa Tyr Phe Tyr Lys Gly

<sup>&</sup>lt;211> 144

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Unknown (H38g202 protein)

<sup>&</sup>lt;220>

<sup>&</sup>lt;223> Synthetic construct

<sup>&</sup>lt;221> VARIANT

<sup>&</sup>lt;222> (1)...(144)

<sup>&</sup>lt;223> Xaa = Any Amino Acid

```
105
Asp Leu Ala Leu Lys Gln Asn Phe Ala Ile Leu Arg Ser Ile Pro Ser
                 120
                                               125
Phe Ser Ser Xaa Asp Leu Glu Ile His Asn Val Arg Tyr Gln His Phe
                       135
<210> 1286
<211> 314
<212> PRT
<213> Unknown (H38g203 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(314)
<223> Xaa = Any Amino Acid
<400> 1286
Thr His Gly Tyr Thr Phe Ser Leu Arg Leu Phe Leu His Cys Leu Thr
                5
                                   10
Tyr Val Xaa Val Ser His Cys Leu Leu Ile Trp Leu Ile Thr Phe Ser
        20
                               25
Pro Phe Asn Leu Leu Phe Lys Xaa Asn Leu Xaa Phe Thr Ile Xaa Leu
                           40
                                               45
Ile Thr Xaa Ile Glu Ser Arg Tyr Ser Lys His Trp Pro Phe Phe Leu
                       55
                                           60
Leu Xaa Cys Phe Cys Asn Val Leu Phe His Leu Asp Cys Asp Ser Pro
                                       75
Val Cys Asn Thr Lys Arg Ile Arg Ser Phe Phe Val Leu Glu Arg Xaa
               85
                                   90
Lys Ser Ser Xaa Lys Ser Glu Lys Ile His Phe Xaa Thr Arg Asn Lys
           100
                               105
                                                   110
Val Ser Cys Phe Xaa Asp Phe Gly Ile Lys Tyr Thr Val Tyr Leu Leu
      115
                           120
                                               125
Leu Leu Lys His Phe Leu Leu Ile His Ser Ile Leu Arg Tyr Leu Xaa
                       135
                                           140
Val Ala Gly Tyr Gly Thr Ser Xaa Phe Leu Ser Arg Ile Ser Ser Ile
                   150
                                       155
Thr Leu Lys Thr Ile Ile Cys Ile Leu Lys Lys Ser Tyr His Phe Phe
               165
                                   170
Ser Val Gln Tyr Thr Ile Ser Tyr Ile Asp Pro Phe Ile Asn Ser Leu
           180
                               185
Val Met Phe Val Val Phe Thr Ala Phe Ile Gln Ala Phe Ala Phe Met
                           200
                                               205
Ile Ile Val Ser Tyr Thr Gln Val Leu Phe Ala Leu Leu Lys Lys
                       215
                                           220
Asn Ser Glu Lys Gly Arg Ser Lys Ser Phe Leu Met Cys Ser Ala His
                   230
                                      235
Leu Leu Ser Val Ser Leu Phe Tyr Ser Ser Val Phe Phe Met Tyr Gly
               245
                                   250
Cys Pro Arg Ser Gly Pro Asp Xaa Gln Trp Asn Glu Met Tyr Phe Pro
                                                   270
           260
                               265
Phe Tyr Met Ile Ile Ile Pro Leu Gln Thr Pro Phe Ile Tyr Ser Met
       275
                           280
                                               285
Lys Asn Lys Glu Val Leu Gly Thr Leu Arg Thr Met Ile Lys Lys Tyr
                       295
                                           300
Phe Trp Arg Thr Leu Ser Xaa Phe Phe Pro
                  310
```

<210> 1287

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<211> 253
 <212> PRT
 <213> Unknown (H38g204 protein)
 <220>
 <223> Synthetic construct
 <400> 1287
 Met Cys Leu Phe Leu Cys His Leu Ser Phe Leu Asp Met Thr Ile Ser
                                     10
 Cys Ala Ile Val Pro Lys Met Leu Ala Gly Phe Leu Leu Gly Ser Arg
             20
                                 25
 Ile Ile Ser Phe Gly Gly Cys Val Ile Gln Leu Phe Ser Phe His Phe
                             40
 Leu Gly Cys Thr Glu Cys Phe Leu Tyr Thr Leu Met Ala Tyr Asp Arg
                        55
 Phe Leu Ala Ile Cys Lys Pro Leu His Tyr Ala Thr Ile Met Thr His
                                         75
Arg Val Cys Asn Ser Leu Ala Leu Gly Thr Trp Leu Gly Gly Thr Ile
                                     90
His Ser Leu Phe Gln Thr Ser Phe Val Phe Arg Leu Pro Phe Cys Gly
            100
                                105
Pro Asn Arg Val Asp Tyr Ile Phe Cys Asp Ile Pro Ala Met Leu Arg
        115
                            120
Leu Ala Cys Ala Asp Thr Ala Ile Asn Glu Leu Val Thr Phe Ala Asp
                        135
                                             140
Ile Gly Phe Leu Ala Leu Thr Cys Phe Met Leu Ile Leu Thr Ser Tyr
                    150
                                         155
Gly Tyr Ile Val Ala Ala Ile Leu Arg Ile Pro Ser Ala Asp Gly Arg
                165
                                    170
                                                         175
Arg Asn Ala Phe Ser Thr Cys Ala Ala His Leu Thr Val Val Ile Val
            180
                                185
                                                    190
Tyr Tyr Val Pro Cys Thr Phe Ile Tyr Leu Arg Pro Cys Ser Gln Glu
                            200
                                                205
Pro Leu Asp Gly Val Val Ala Val Phe Tyr Thr Val Ile Thr Pro Leu
                        215
                                            220
Leu Asn Ser Ile Ile Tyr Thr Leu Cys Asn Lys Glu Met Lys Ala Ala
                    230
                                       235
Leu Gln Arg Leu Gly Gly His Lys Glu Val Gln Pro His
<210> 1288
<211> 311
<212> PRT
<213> Unknown (H38g205 protein)
<220>
<223> Synthetic construct
<400> 1288
Met Gly Ser Phe Asn Thr Ser Phe Glu Asp Gly Phe Ile Leu Val Gly
1
                5
Phe Ser Asp Trp Pro Gln Leu Glu Pro Ile Leu Phe Val Phe Ile Phe
            20
                                25
Ile Phe Tyr Ser Leu Thr Leu Phe Gly Asn Thr Ile Ile Ile Ala Leu
                            40
                                                45
Ser Trp Leu Asp Leu Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                        55
                                            60
His Leu Ser Leu Leu Asp Leu Cys Phe Thr Thr Ser Thr Val Pro Gln
                                        75
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Leu Leu Ile Asn Leu Cys Gly Val Asp Arg Thr Ile Thr Arg Gly Gly

```
85
                                    90
Cys Val Ala Gln Leu Phe Ile Tyr Leu Ala Leu Gly Ser Thr Glu Cys
            100
                                105
Val Leu Leu Val Val Met Ala Phe Asp Arg Tyr Ala Ala Val Cys Arg
                            120
Pro Leu His Tyr Met Ala Ile Met His Pro His Leu Cys Gln Thr Leu
                       135
                                            140
Ala Ile Ala Ser Trp Gly Ala Gly Phe Val Asn Ser Leu Ile Gln Thr
                   150
                                       155
Gly Leu Ala Met Ala Met Pro Leu Cys Gly His Arg Leu Asn His Phe
                                   170
               165
Phe Cys Glu Met Pro Val Phe Leu Lys Leu Ala Cys Ala Asp Thr Glu
           180
                               185
Gly Thr Glu Ala Lys Met Phe Val Ala Arg Val Ile Val Val Ala Val
                            200
Pro Ala Ala Leu Ile Leu Gly Ser Tyr Val His Ile Ala His Ala Val
                       215
                                            220
Leu Arg Val Lys Ser Thr Ala Gly Arg Arg Lys Ala Phe Gly Thr Cys
                   230
                                       235
Gly Ser His Leu Leu Val Val Phe Leu Phe Tyr Gly Ser Ala Ile Tyr
               245
                                   250
Thr Tyr Leu Gln Ser Ile His Asn Tyr Ser Glu Arg Glu Gly Lys Phe
                                                   270
           260
                                265
Val Ala Leu Phe Tyr Thr Ile Ile Thr Pro Ile Leu Asn Pro Leu Ile
                           280
                                                285
Tyr Thr Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Trp Lys Val Leu
                       295
Trp Arg Gly Arg Asp Ser Gly
<210> 1289
<211> 311
<212> PRT
<213> Unknown (H38g206 protein) -
<223> Synthetic construct
<400> 1289
Met Lys Ile Lys Asn His Thr Pro Val Thr Glu Val Pro Leu Met Gly
                                   10
Ile Pro His Thr Lys Gly Met Glu Asn Val Leu Phe Val Leu Phe Leu
           20
                               25
Ala Phe Tyr Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Leu Leu Ala
      35
                           40
Val Leu Thr Phe Ser Asn Leu His Thr Pro Met Tyr Phe Phe Leu Gly
                       55
                                            60
Asn Leu Ser Val Phe Asp Ile Phe Phe Pro Ser Val Ser Ser Pro Lys
                   70
                                        75
Met Met Leu Cys Leu Val Gly Gln Ser Cys Thr Ile Ser Phe Gln Gly
Cys Ala Ser Gln Leu Phe Phe His His Phe Leu Gly Cys Thr Glu Cys
                                105
Phe Leu Tyr Thr Val Met Ala Tyr Asp Arg Phe Ala Ala Ile Cys His
                            120
Pro Leu Pro Tyr Thr Val Ile Met Lys Arg Arg Val Cys Ala Leu Leu
                       135
                                            140
Thr Leu Gly Thr Trp Thr Gly Ser Cys Leu His Ala Ser Val Leu Thr
                   150
                                       155
Leu Leu Ile Phe Lys Leu Ser Tyr Cys Gly Pro Asn Glu Val Asp Asn
                                   170
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Phe Phe Cys Asp Ile Pro Val Val Leu Pro Leu Ala Cys Ala Asp Thr
                                185
                                                    190
Ser Leu Ala Arg Thr Val Ser Phe Ile Asn Val Gly Val Val Ala Leu
                            200
                                               205
        195
Met Cys Phe Leu Leu Ile Leu Thr Ser Tyr Ala Cys Ile Val Ile Ser
                                            220
    210
                       215
Ile Leu Lys Ile Ser Ser Ser Glu Gly Arg Arg Ala Phe Ser Thr
                                       235
                   230
Cys Ser Ala His Leu Thr Ser Ile Leu Leu Phe Tyr Gly Pro Ile Val
                                   250
Leu Ile Tyr Leu Arg Pro Ala Ser Ser Pro Trp Leu Asp Ser Val Val
                               265
           260
Gln Val Leu Asn Asn Ile Val Ile Pro Ser Leu Asn Pro Leu Ile Tyr
                           280
                                               285
Thr Leu Arg Asn Lys Gly Val Lys Leu Ala Leu Arg Lys Val Leu Ile
                       295
Gln Gly Val His Asn Cys Gly
<210> 1290
<211> 298
<212> PRT
<213> Unknown (H38g207 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(298)
<223> Xaa = Any Amino Acid
<400> 1290
Val Arg Gly Ser Lys Gln Leu Arg Asn Gly Thr Leu Val Ser Gln Phe
                                   10
Leu Leu Lys Gly Leu Arg Asp Ser Lys Ala Trp Arg Pro Leu Leu Phe
                                25
Thr Thr Phe Leu Leu Ile Tyr Ile Val Val Val Gly Ser His Met
                           40
                                               45
Phe Thr Val Asp Tyr Arg Arg His Thr Pro Met Tyr Phe Phe Leu Gly
Gly His Ser Leu Met Asp Ala Ala Cys Ile Ser Asn Met Val Thr Gln
                   70
                                       75
Val Leu Val His Leu Leu Ala Pro Val Gly Pro Val Leu Tyr Cys Ala
                                   90
               85
Cys Leu Ile Gln Ile Cys Phe Leu His Phe Leu Ala Pro Xaa Glu Ser
                               105
                                                   110
           100
Phe Leu Leu Thr Ala Val Ala Tyr Asp Ser Met Leu Ala Ile Cys Gln
                                               125
                           120
Pro Leu His Tyr Phe Val Leu Val Gly Arg Leu Thr His Thr Gly Leu
                                          140
                       135
Thr Ser Ile Ser Cys Leu Leu Ala Leu Ala Asn Ala Phe Thr Tyr Ser
                   150
                                       155
Ile Leu Thr Ala Leu Pro Lys Phe Cys Arg Pro Cys Leu Ile Thr His
                                    170
               165
Phe Phe Cys Asp Leu Pro Ser Leu Leu Arg Leu Ser Cys Phe Ser Thr
           180
                                185
Arg Thr Asn Glu Leu Ala Leu Phe Phe Ser Phe Leu Val Ala Leu Ala
                                               205
                           200
       195
His Cys Val Leu Val Val Val Ser Tyr Gly His Val Val Ala Ala Val
                       215
                                           220
Gln Ile His Ser Thr Gln Gly Xaa Arg Lys Ala Phe Ser Thr Cys Val
```

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235
                   230
Ala His Leu Ala Met Ile Gly Leu Phe Tyr Val Thr Ser Val Pro Cys
              245
                                   250
Tyr Ile Leu Pro Asn Ser Ala Tyr Ser Gly Leu Gly Asp Trp Val Leu
          260
                               265
                                                  270
Ser Val Leu Cys Val Val Leu Thr His Met Leu Asn Pro Ile Phe Pro
                           280
                                               285
Ser Met Leu Gly Xaa Gln Cys Met Ser His
                       295
<210> 1291
<211> 312
<212> PRT
<213> Unknown (H38g208 protein)
<220>
<223> Synthetic construct
<400> 1291
Met Gly Val Lys Asn His Ser Thr Val Thr Glu Phe Leu Leu Ser Gly
                                   10
Leu Thr Glu Gln Ala Glu Leu Gln Leu Pro Leu Phe Cys Leu Phe Leu
                               25
Gly Ile Tyr Thr Val Thr Val Val Gly Asn Leu Ser Met Ile Ser Ile
                                              45
                           40
Ile Arg Leu Asn Arg Gln Leu His Thr Pro Met Tyr Tyr Phe Leu Ser
                      55
                                           60
Ser Leu Ser Phe Leu Asp Phe Cys Tyr Ser Ser Val Ile Thr Pro Lys
                                      75
                   70
Met Leu Ser Gly Phe Leu Cys Arg Asp Arg Ser Ile Ser Tyr Ser Gly
               85
                                   90
Cys Met Ile Gln Leu Phe Phe Cys Val Cys Val Ile Ser Glu Cys
                               105
Tyr Met Leu Ala Ala Met Ala Cys Asp Arg Tyr Val Ala Ile Cys Ser
                           120
                                               125
Pro Leu Leu Tyr Arg Val Ile Met Ser Pro Arg Val Cys Ser Leu Leu
                                           140
                       135
Val Ala Ala Val Phe Ser Val Gly Phe Thr Asp Ala Val Ile His Gly
                   150
                                       155
Gly Cys Ile Leu Arg Leu Ser Phe Cys Gly Ser Asn Ile Ile Lys His
                                   170
               165
Tyr Phe Cys Asp Ile Val Pro Leu Ile Lys Leu Ser Cys Ser Ser Thr
           180
                               185
Tyr Ile Asp Glu Leu Leu Ile Phe Val Ile Gly Gly Phe Asn Met Val
                           200
                                               205
Ala Thr Ser Leu Thr Ile Ile Ile Ser Tyr Ala Phe Ile Leu Thr Ser
                       215
                                           220
Ile Leu Arg Ile His Ser Lys Lys Gly Arg Cys Lys Ala Phe Ser Thr
                                       235
                   230
Cys Ser Ser His Leu Thr Ala Val Leu Met Phe Tyr Gly Ser Leu Met
                                   250
               245
Ser Met Tyr Leu Lys Pro Ala Ser Ser Ser Ser Leu Thr Gln Glu Lys
                               265
Val Ser Ser Val Phe Tyr Thr Thr Val Ile Leu Met Leu Asn Pro Leu
                          280
Ile Tyr Ser Leu Arg Asn Asn Glu Val Arg Asn Ala Leu Met Lys Leu
                      295
Leu Arg Arg Lys Ile Ser Leu Ser
                   310
```

<210> 1292

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<211> 251
 <212> PRT
 <213> Unknown (H38g209 protein)
<223> Synthetic construct
 <400> 1292
Met Tyr Tyr Phe Leu Ser His Leu Ala Phe Val Asp Leu Cys Tyr Ser
                                   10
 Ser Ala Ile Thr Pro Lys Met Met Val Asn Phe Val Val Glu Arg Asn
                                25
Thr Ile Pro Phe His Ala Cys Ala Thr Gln Leu Gly Cys Phe Leu Thr
                            40
                                                45
Phe Met Ile Thr Glu Cys Phe Leu Leu Ala Ser Met Ala Tyr Asp Cys
                       55
Tyr Val Ala Ile Cys Ser Pro Leu His Tyr Ser Thr Leu Met Ser Arg
                   70
                                       75
Arg Val Cys Ile Gln Leu Val Ala Val Pro Tyr Ile Tyr Ser Phe Leu
               85
                                    90
Val Ala Leu Phe His Thr Val Ile Thr Phe Arg Leu Thr Tyr Cys Gly
            100
                                105
                                                 110
Pro Asn Leu Ile Asn His Phe Tyr Cys Asp Asp Leu Pro Phe Leu Ala
        115
                            120
                                                125
Leu Ser Cys Ser Asp Thr His Met Lys Glu Ile Leu Ile Phe Ala Phe
                        135
Ala Gly Phe Asp Met Ile Ser Ser Ser Ile Val Leu Thr Ser Tyr
                    150
                                        155
Ile Phe Ile Ile Ala Ala Ile Leu Arg Ile Arg Ser Thr Gln Gly Gln
               165
                                   170
                                                       175
His Lys Ala Ile Ser Thr Cys Gly Ser His Met Val Thr Val Thr Ile
                                185
Phe Tyr Gly Thr Leu Ile Phe Met Tyr Leu Gln Pro Lys Ser Asn His
                           200
                                               205
Ser Leu Asp Thr Asp Lys Met Ala Ser Val Phe Tyr Thr Val Val Ile
                       215
                                       220
Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys
                  230
                                       235
Asp Ala Ser Lys Lys Ala Leu Asp Lys Gly Cys
                245
<210> 1293
<211> 311
<212> PRT
<213> Unknown (H38g210 protein)
<220>
<223> Synthetic construct
<400> 1293
Met Ser Asn Ala Thr Leu Leu Thr Ala Phe Ile Leu Thr Gly Leu Pro
1
                5
                                   10
His Ala Pro Gly Leu Asp Ala Pro Leu Phe Gly Ile Phe Leu Val Val
                               25
Tyr Val Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg
Val Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Thr Asn Leu
                       55
Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Met Leu
                   70
                                       75
```

Met Thr Leu Val Ser Pro Ser Gly Arg Thr Ile Ser Phe His Ser Cys

```
85
                                     90
 Val Ala Gln Leu Tyr Phe Phe His Phe Leu Gly Ser Thr Glu Cys Phe
                                105
 Leu Tyr Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala Ile Ser Tyr Pro
                            120
 Leu Arg Tyr Thr Asn Met Met Thr Gly Arg Ser Cys Ala Leu Leu Ala
                        135
 Thr Gly Thr Trp Leu Ser Gly Ser Leu His Ser Ala Val Gln Thr Ile
                    150
                                        155
Leu Thr Phe His Leu Pro Tyr Cys Gly Pro Asn Gln Ile Gln His Tyr
                165
                                    170
Phe Cys Asp Ala Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser
            180
                                185
Ala Asn Glu Met Val Ile Phe Val Asn Ile Gly Leu Val Ala Ser Gly
                            200
Cys Phe Val Leu Ile Val Leu Ser Tyr Val Ser Ile Val Cys Ser Ile
                        215
                                            220
Leu Arg Ile Arg Thr Ser Glu Gly Arg His Arg Ala Phe Gln Thr Cys
                    230
                                        235
Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Gly Pro Gly Leu Phe
               245
                                    250
Ile Tyr Leu Arg Pro Gly Ser Arg Asp Ala Leu His Gly Val Val Ala
            260
                               265
Val Phe Tyr Thr Thr Leu Thr Pro Leu Phe Asn Pro Val Val Tyr Thr
       275
                           280
                                               285
Leu Arg Asn Lys Glu Val Lys Lys Ala Leu Leu Lys Leu Lys Asn Gly
                       295
Ser Val Phe Ala Gln Gly Glu
<210> 1294
<211> 278
<212> PRT
<213> Unknown (H38g211 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(278)
<223> Xaa = Any Amino Acid
<400> 1294
His Ser Ser Leu Leu Phe Ala Val Phe Leu Leu Thr Tyr Ser Val Thr
           . 5
                                    10
Leu Val Gly Asn Leu Gly Met Thr Asp Leu Ile Cys Gln Ser Arg Thr
           20
                                25
Ser Ser Ala Leu His Thr Pro Met Cys Phe Leu Leu Ser Val Phe Ser
                            40
                                                45
Phe Leu Asp Ile Cys Ser Ser Ser Ile Val His Pro Arg Leu Leu Ile
                        55
                                            60
His Phe Leu Thr Thr Arg Pro Ser Ile Ser Phe Ala Gly Gly Ile Ile
                    70
                                        75
Gln Met Ala Leu Met Thr Phe Tyr Gly Thr Gly Glu Cys Leu Leu Leu
                                    90
                85
Ala Ile Val Ala Tyr Asp Xaa Val Val Ala Ile Cys His Pro Phe Pro
                               105
Xaa His Ile Ile Met Ser Lys Gly Leu Cys Ala Gln Leu Val Val Val
       115
                           120
                                                125
Thr Ser Ala Val Gly Val Leu Ile Ser Ala His Arg Gln Asp Ala Phe
                       135
                                            140
```

Ile Ser Pro Tyr Arg Gly Leu Asn Ile Ile Asp His Tyr Tyr Cys Ser 150 155 Val Thr Phe Pro Thr Pro Met Leu Gln Leu Ala Cys Ser Asp Ala Thr 165 170 Val Ala Asn Met Ile Leu Phe Val Ser Ser Ala Leu Ile Thr Ile Pro 185 Thr Ile Ser Val Ile Leu Val Ser Tyr Thr Tyr Ile Leu Val Asn Leu 200 Val Arg Met Arg Ser Leu Asp Ala Gln Cys Lys Ala Phe Ser Thr Arg 215 220 Ala Ser His Leu Thr Ala His Cys Leu Phe Tyr Gly Phe Val Phe Leu 230 235 Val Tyr Ile Pro Pro Asn Pro Glu Met Ala Ser Ala Tyr Asn Lys Ile 245 250 Leu Phe Thr Val Val Ile Pro Met Leu Asn Leu Leu Val Xaa Gly Leu 265 260 Arg Asn Lys Asp Val Lys 275

<210> 1295

<211> 312

<212> PRT

<213> Unknown (H38g212 protein)

<220>

<223> Synthetic construct

<400> 1295

Ser Val Ala Lys Gly Asn His Ser Thr Val Tyr Glu Phe Ile Leu Leu 1 5 10 . 15 Gly Leu Thr Asp Asn Ala Glu Leu Gln Val Thr Leu Phe Gly Ile Phe 2.0 25 Leu Val Val Tyr Leu Ala Ser Phe Met Gly Asn Phe Gly Leu Ile Met 40 Leu Ile Gln Ile Ser Pro Gln Leu His Thr Pro Met Tyr Phe Phe Leu 55 60 Ser His Leu Ala Phe Val Asp Phe Ser Phe Thr Ser Ser Val Ala Pro 70 75 Asn Thr Leu Val Asn Phe Leu Cys Glu Val Lys Ser Ile Thr Phe Tyr 85 90 Ala Cys Ala Ile Gln Val Cys Cys Phe Ile Thr Phe Val Val Cys Glu 105 Leu Tyr Leu Leu Ser Ile Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys 120 125 Asn Pro Leu Leu Tyr Val Ile Leu Ile Pro Arg Lys Cys Ile Lys Leu 135 140 Ile Ala Ser Thr Tyr Val Tyr Gly Phe Thr Val Gly Leu Val Gln Thr 150 155 Val Ala Thr Ser Tyr Leu Ser Phe Cys Asp Ser Asn Val Ile Asn His 165 170 Phe Tyr His Asp Asp Val Pro Leu Val Ala Leu Ala Cys Ser Asp Thr 180 185 His Val Lys Glu Leu Met Leu Leu Ile Ile Ala Gly Phe Asn Thr Leu 195 200 205 Cys Ser Leu Val Ile Val Leu Ile Ser Tyr Gly Phe Ile Phe Phe Ala 215 220 Ile Leu Arg Ile His Ser Ala Glu Gly Arg Gln Lys Ala Phe Ser Thr 230 235 Ser Ala Ser His Leu Thr Ser Ile Thr Ile Phe Tyr Gly Thr Ile Ile 245 250 Phe Met Tyr Pro Gln Pro Lys Ser Ser His Ser Leu Asn Met Asp Lys

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260
                                265
Val Ala Ser Val Phe Asn Val Val Ile Pro Thr Leu Asn Pro Leu
        275
                     280
 Ile Tyr Ser Leu Arg Asn Gln Glu Val Lys Asn Ala Leu Lys Arg Ile
                       295
                                            300
 Ile Glu Lys Leu Cys Leu Ala Val
                   310
<210> 1296
<211> 232
<212> PRT
<213> Unknown (H38g213 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1) ... (232)
<223> Xaa = Any Amino Acid
<400> 1296
Ser Gly Leu Val Pro Lys Ser Phe Pro Gly Cys Leu Thr Gln Leu Phe
             5
                                    10
Phe Leu His Tyr Ser Phe Val Leu Asp Ser Ala Ile Leu Leu Ala Met
           20
                               25
Ala Phe Asp Arg Tyr Met Ala Ile Cys Ser Pro Leu Arg Tyr Thr Thr
                            40
                                                45
Ile Leu Thr Pro Lys Thr Ile Val Lys Ile Ala Val Gly Ile Cys Phe
                        55
Arg Ser Phe Cys Val Phe Val Pro Cys Val Phe Leu Val Asn Arg Leu
                    70
                                        75
Pro Phe Cys Arg Thr His Ile Ile Ser His Thr Tyr Cys Glu His Ile
                85
                                    90
Gly Val Ala Gln Leu Ala Cys Ala Asp Ile Ser Ile Asn Ile Trp Cys
            100
                                105
Gly Phe Cys Val Pro Ile Met Thr Val Met Thr Asp Val Ile Leu Ile
                            120
                                                125
Ala Val Ser Tyr Thr Leu Ile Leu Cys Ala Val Phe Cys Leu Pro Ser
                        135
                                            140
Gln Asp Ala Arg Gln Lys Ala Leu Cys Ser Cys Gly Ser His Val Cys
                                        155
                    150
Val Ile Leu Ile Phe Tyr Ile Pro Ala Phe Phe Ser Ile Leu Ala His
               165
                                    170
Cys Phe Gly His Asn Val Pro His Thr Phe His Ile Met Phe Ala Asn
            180
                               185
Leu Tyr Val Ile Ile Pro Pro Ala Leu Asn Ser Ile Val Tyr Arg Ile
                           200
       195
                                               205
Lys Thr Lys Gln Ile Gln Asn Arg Ile Leu Leu Phe Pro Lys Gly
                       215
Ser Gln Xaa Xaa Val Pro Glu Leu
                    230
<210> 1297
<211> 310
<212> PRT
<213> Unknown (H38g214 protein)
<223> Synthetic construct
<400> 1297
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Met Ser Asn Ala Ser Leu Leu Thr Ala Phe Ile Leu Met Gly Leu Pro
                                     10
His Ala Pro Ala Leu Asp Ala Pro Leu Phe Gly Val Phe Leu Val Val
Tyr Val Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg
                             40
Val Asp Ser His Leu His Thr Thr Met Tyr Tyr Phe Leu Thr Asn Leu
                        55
Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Leu Leu
                   70
                                        75
Met Thr Leu Val Phe Pro Ser Gly Arg Ala Ile Ser Phe His Ser Cys
                                    90
Met Ala Gln Leu Tyr Phe Phe His Phe Leu Gly Gly Thr Glu Cys Phe
                                105
Leu Tyr Arg Val Met Ser Cys Asp Arg Tyr Leu Ala Ile Ser Tyr Pro
                            120
Leu Arg Tyr Thr Ser Met Met Thr Gly Arg Ser Cys Thr Leu Leu Ala
                       135
                                            140
Thr Ser Thr Trp Leu Ser Gly Ser Leu His Ser Ala Val Gln Ala Ile
                   150
                                        155
Leu Thr Phe His Leu Pro Tyr Cys Gly Pro Asn Trp Ile Gln His Tyr
                165
                                    170
Leu Cys Asp Ala Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser
                                185
                                                    190
Ala Ile Glu Thr Val Ile Phe Val Thr Val Gly Ile Val Ala Ser Gly
        195
                            200
                                                205
Cys Phe Val Leu Ile Val Leu Ser Tyr Val Ser Ile Val Cys Ser Ile
                        215
                                            220
Leu Arg Ile Arg Thr Ser Glu Gly Lys His Arg Ala Phe Gln Thr Cys
                    230
                                        235
Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Gly Pro Gly Leu Phe
                                    250
Ile Tyr Leu Arg Pro Gly Ser Arg Lys Ala Val Asp Gly Val Val Ala
            260
                                265
Val Phe Tyr Thr Val Leu Thr Pro Leu Leu Asn Pro Val Val Tyr Thr
                           280
                                               285
Leu Arg Asn Lys Glu Val Lys Lys Ala Leu Leu Lys Leu Lys Asp Lys.
Val Ala His Ser Gln Ser
305
                    310
<210> 1298
<211> 311
<212> PRT
<213> Unknown (H38g215 protein)
<220>
<223> Synthetic construct
<400> 1298
Met Arg Arg Asn Cys Thr Leu Val Thr Glu Phe Ile Leu Leu Gly Leu
                                    10
Thr Ser Arg Arg Glu Leu Gln Ile Leu Leu Phe Thr Leu Phe Leu Ala
                                25
Ile Tyr Met Val Thr Val Ala Gly Asn Leu Gly Met Ile Val Leu Ile
                            40
Gln Ala Asn Ala Trp Leu His Met Pro Met Tyr Phe Phe Leu Ser His
                       55
                                            60
Leu Ser Phe Val Asp Leu Cys Phe Ser Ser Asn Val Thr Pro Lys Met
                   70
Leu Glu Ile Phe Leu Ser Glu Lys Lys Ser Ile Ser Tyr Pro Ala Cys
```

```
90
Leu Val Gln Cys Tyr Leu Phe Ile Ala Leu Val His Val Glu Ile Tyr
                               105
Ile Leu Ala Val Met Ala Phe Asp Arg Tyr Met Ala Ile Cys Asn Pro
                            120
                                                125
Leu Leu Tyr Gly Ser Arg Met Ser Lys Ser Val Cys Ser Phe Leu Ile
                        135
                                           140
Thr Val Pro Tyr Val Tyr Gly Ala Leu Thr Gly Leu Met Glu Thr Met
                   150
                                       155
Trp Thr Tyr Asn Leu Ala Phe Cys Gly Pro Asn Glu Ile Asn His Phe
                                   170
               165
Tyr Cys Ala Asp Pro Pro Leu Ile Lys Leu Ala Cys Ser Asp Thr Tyr
                               185
           180
Asn Lys Glu Leu Ser Met Phe Ile Val Ala Gly Trp Asn Leu Ser Phe
                           200
Ser Leu Phe Ile Ile Cys Ile Ser Tyr Leu Tyr Ile Phe Pro Ala Ile
                       215
                                           220
Leu Lys Ile Arg Ser Thr Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys
                   230
                                       235
Gly Ser His Leu Thr Ala Val Thr Ile Phe Tyr Ala Thr Leu Phe Phe
               245
                                   250
Met Tyr Leu Arg Pro Pro Ser Lys Glu Ser Val Glu Gln Gly Lys Met
           260
                               265
                                                   270
Val Ala Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Leu Ile Ile
                           280
                                               285
Tyr Ser Leu Arg Asn Lys Asn Val Lys Glu Ala Leu Ile Lys Glu Leu
                       295
Ser Met Lys Ile Tyr Phe Ser
<210> 1299
<211> 315
<212> PRT
<213> Unknown (H38g216 protein)
<220>
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<400> 1299
Met Leu Leu Ser Asn Ile Thr Gln Phe Ser Pro Ile Phe Tyr Leu Thr
Ser Phe Pro Gly Leu Glu Gly Ile Lys His Trp Ile Phe Ile Pro Phe
                                25
Phe Phe Met Tyr Met Val Ala Ile Ser Gly Asn Cys Phe Ile Leu Ile
                            40
                                                45
Ile Ile Lys Thr Asn Pro-Arg Leu His Thr Pro Met Tyr Tyr Leu Leu
                       55
                                           60
Ser Leu Leu Ala Leu Thr Asp Leu Gly Leu Cys Val Ser Thr Leu Pro
                   70
                                       75
Thr Thr Met Gly Ile Phe Trp Phe Asn Ser Gln Ser Ile Tyr Phe Gly
               85
                                   90
Ala Cys Gln Ile Gln Met Phe Cys Ile His Ser Phe Ser Phe Met Glu
                               105
           100
Ser Ser Val Leu Leu Met Met Ser Phe Asp Arg Phe Val Ala Ile Cys
       115
                            120
                                               125
His Pro Leu Arg Tyr Ser Val Ile Ile Thr Gly Gln Gln Val Val Arg
                       135
                                           140
Ala Gly Leu Ile Val Ile Phe Arg Gly Pro Val Ala Thr Ile Pro Ile
                   150
                                       155
Val Leu Leu Lys Ala Phe Pro Tyr Cys Gly Ser Val Val Leu Ser
                                   170
               165
```

```
His Ser Phe Cys Leu His Gln Glu Val Ile Gln Leu Ala Cys Thr Asp
            180
                               185
 Thr Thr Phe Asn Asn Leu Tyr Gly Leu Met Val Val Val Phe Thr Val
                            200
                                                205
 Met Leu Asp Leu Val Leu Ile Ala Leu Ser Tyr Gly Leu Ile Leu His
                        215
Thr Val Ala Gly Leu Ala Ser Gln Glu Glu Gln Arg Arg Ala Phe Gln
                    230
                                        235
 Thr Cys Thr Ala His Leu Cys Ala Val Leu Val Phe Phe Val Pro Met
                245
                                    250
Met Gly Leu Ser Leu Val His Arg Phe Gly Lys His Ala Pro Pro Ala
           260
                                265
 Ile His Leu Leu Met Ala Asn Val Tyr Leu Phe Val Pro Pro Met Leu
                            280
Asn Pro Ile Ile Tyr Ser Ile Lys Thr Lys Glu Ile His Arg Ala Ile
                       295
                                            300
 Ile Lys Leu Leu Gly Leu Lys Lys Ala Ser Lys
                    310
<210> 1300
<211> 323
<212> PRT
<213> Unknown (H38g217 protein)
<223> Synthetic construct
<400> 1300
Met Asn Pro Glu Asn Trp Thr Gln Val Thr Ser Phe Val Leu Leu Gly
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Phe Pro Ser Ser His Leu Ile Gln Phe Leu Val Phe Leu Gly Leu Met
                                25
Val Thr Tyr Ile Val Thr Ala Thr Gly Lys Leu Leu Ile Ile Val Leu
       35
                            40
Ser Trp Ile Asp Gln Arg Leu His Ile Gln Met Tyr Phe Phe Leu Arg
                        55
                                            60
Asn Phe Ser Phe Leu Glu Leu Leu Val Thr Val Val Pro Lys
                    70
                                        75
Met Leu Val Val Ile Leu Thr Gly Asp His Thr Ile Ser Phe Val Ser
Cys Ile Ile Gln Ser Tyr Leu Tyr Phe Phe Leu Gly Thr Thr Asp Phe
           100
                               105
Phe Leu Leu Ala Val Met Ser Leu Asp Arg Tyr Leu Ala Ile Cys Arg
                           120
                                                125
Pro Leu Arg Tyr Glu Thr Leu Met Asn Gly His Val Cys Ser Gln Leu
                       135
                                           140
Val Leu Ala Ser Trp Leu Ala Gly Phe Leu Trp Val Leu Cys Pro Thr
                   150
                                       155
Val Leu Met Ala Ser Leu Pro Phe Cys Gly Pro Asn Gly Ile Asp His
               165
                                   170
Phe Phe Arg Asp Ser Trp Pro Leu Leu Arg Leu Ser Cys Gly Asp Thr
           180
                               185
                                                   190
His Leu Leu Lys Leu Val Ala Phe Met Leu Ser Thr Leu Val Leu Leu
                           200
                                               205
Gly Ser Leu Ala Leu Thr Ser Val Ser Tyr Ala Cys Ile Leu Ala Thr
                       215
                                            220
Val Leu Arg Ala Pro Thr Ala Ala Glu Arg Arg Lys Ala Phe Ser Thr
                   230
                                       235
Cys Ala Ser His Leu Thr Val Val Val Ile Ile Tyr Gly Ser Ser Ile
               245
                                   250
Phe Leu Tyr Ile Arg Met Ser Glu Ala Gln Ser Lys Leu Leu Asn Lys
```

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265
Gly Ala Ser Val Leu Ser Cys Ile Ile Thr Pro Leu Leu Asn Pro Phe
                           280
Ile Phe Thr Leu Arg Asn Asp Lys Val Gln Gln Ala Leu Arg Glu Ala
                       295
                                            300
Leu Gly Trp Pro Arg Leu Thr Ala Val Met Lys Leu Arg Val Thr Ser
                    310
                                        315
Gln Arg Lys
<210> 1301
<211> 338
<212> PRT
<213> Unknown (H38g218 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(338)
<223> Xaa = Any Amino Acid
<400> 1301
Met Met Gly Glu Ala Arg Asn Arg Thr Val Val Gln Glu Phe Ile Leu
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Glu Gly Phe Pro Ala Val Gln His Leu Gly Asn Val Leu Phe Leu Val
           20
                                25
His Leu Leu Ala Tyr Leu Ala Ser Ile Met Ala Asn Met Leu Ile Ile
                            40
Thr Ile Thr Trp Ala Asp His His Leu Gln Thr Pro Met Tyr Phe Phe
                        55
Leu Asn Ser Phe Ser Phe Cys Glu Cys Cys Phe Ile Thr Thr Val Ile
                    70
                                        75
Pro Lys Leu Leu Val Ile Phe Leu Ser Gly Arg Gln Ile Ile Pro Phe
                85
                                    90
Thr Thr Cys Leu Met Gln Ser Phe Ser Phe Leu Phe Leu Gly Ser Thr
                               105
Val Phe Phe Leu Met Ala Val Met Ser Leu Asp Xaa Tyr Leu Ala Ile
                            120
                                                125
Cys Lys Pro Leu His Tyr Ser Thr Ile Met Ser Leu Arg Thr Ser Phe
                       135
                                           140
His Leu Val Thr Val Cys Phe Val Val Gly Phe Thr Leu Ile Thr Gly
                   150
                                       155
Leu Met Val Lys Val Ser Gln Leu Ser Phe Cys Gly Pro His Val Ile
               165
                                   170
Pro His Phe Phe Arg Asp Leu Gly Pro Leu Ile Gln Leu Ser Cys Ser
                               185
Asp Thr Arg Ser Thr Glu Thr Leu Ala Phe Val Leu Val Ser Phe Val
       195
                           200
                                                205
Leu Phe Thr Ser Leu Ile Ile Thr Ile Ile Ala Tyr Gly Asn Ile Val
                       215
                                            220
Val Thr Ile Val Arg Leu Pro Ser Ala Lys Glu Arg Gln Lys Ala Phe
                   230
                                       235
Ser Thr Cys Ser Ser His Leu Ile Val Leu Ser Leu Val Tyr Gly Ser
                                   250
Cys Val Phe Ile Tyr Val Lys Pro Lys Gln Met Asp Arg Leu Asp Ser
                               265
Asn Arg Met Ala Ala Leu Val Asn Thr Val Val Thr Pro Leu Leu Asn
       275
                           280
                                                285
Pro Ile Ile Tyr Thr Leu Arg Asn Lys Gln Val His Gln Ala Leu Arg
                       295
                                           300
```

Asp Ala Gln Ser Arg Met Lys Leu Xaa Lys Gln Asn His Asn Leu Gln

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310
                                       315
Xaa Arg Asn Ala Pro Phe Leu Asp Leu Ile Gln Ser Phe Ser Cys Phe
                                   330
               325
Trp Asn
<210> 1302
<211> 309
<212> PRT
<213> Unknown (H38g219 protein)
<220>
<223> Synthetic construct
<400> 1302
Met Ala Ser Thr Ser Asn Val Thr Glu Leu Ile Phe Thr Gly Leu Phe
Gln Asp Pro Ala Val Gln Ser Val Cys Phe Val Val Phe Leu Pro Val
                               25
Tyr Leu Ala Thr Val Val Gly Asn Gly Leu Ile Val Leu Thr Val Ser
                           40
       35
Ile Ser Lys Ser Leu Asp Ser Pro Met Tyr Phe Phe Leu Ser Cys Leu
                      55
Ser Leu Val Glu Ile Ser Tyr Ser Ser Thr Ile Ala Pro Lys Phe Ile
                                   75
                  70
Ile Asp Leu Leu Ala Lys Ile Lys Thr Ile Ser Leu Glu Gly Cys Leu
                                   90
               85
Thr Gln Ile Phe Phe Phe His Phe Phe Gly Val Ala Glu Ile Leu Leu
                               105
Ile Val Val Met Ala Tyr Asp Cys Tyr Val Ala Ile Cys Lys Pro Leu
                                               125
                           120
His Tyr Met Asn Ile Ile Ser Arg Gln Leu Cys His Leu Leu Val Ala
                       135
Gly Ser Trp Leu Gly Gly Phe Cys His Ser Ile Ile Gln Ile Leu Val
                                       155
                   150
Ile Ile Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Tyr Phe
                                   170
                                                       175
               165
Cys Asp Leu Gln Pro Leu Phe Lys Leu Ala Cys Thr Asp Thr Phe Met
                                                   190
                               185
Glu Gly Val Ile Val Leu Ala Asn Ser Gly Leu Phe Ser Val Phe Ser
                           200
                                               205
       195
Phe Leu Ile Leu Val Ser Ser Tyr Ile Val Ile Leu Val Asn Leu Arg
                                           220
                       215
Asn His Ser Ala Glu Gly Arg His Lys Ala Leu Ser Thr Cys Ala Ser
                                       235
                   230
His Ile Thr Val Val Ile Leu Phe Phe Gly Pro Ala Ile Phe Leu Tyr
                                   250
               245
Met Arg Pro Ser Ser Thr Phe Thr Glu Asp Lys Leu Val Ala Val Phe
                               265
Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Ile Ile Tyr Thr Leu Arg
                           280
                                               285
Asn Ala Glu Val Lys Ile Ala Ile Arg Arg Leu Trp Ser Lys Lys Glu
                                           300
                      295
Asn Pro Gly Arg Glu
<210> 1303
<211> 322
<212> PRT
<213> Unknown (H38g220 protein)
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<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(322)
<223> Xaa = Any Amino Acid
Met Ala Lys Gly Asn His Ser Ser Val Thr Glu Phe Ile Leu Leu Gly
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Leu Thr Asp Asn Gln Glu Leu Gln Val Ile Leu Phe Gly Val Phe Leu
                                25
Leu Ile Tyr Leu Val Thr Val Leu Gly Asn Leu Gly Leu Ile Val Leu
                            40
                                                45
Ile His Ile Ser Pro Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                       55
                                            60
His Leu Ala Phe Val Asp Phe Tyr Gly Thr Ser Ala Ile Thr Pro Asn
                   70
                                        75
Thr Leu Val Asn Ser Leu His Glu Ile Lys Ser Met Ser Phe Tyr Ala
                                    90
Cys Ala Thr Gln Val Cys Cys Phe Ile Thr Leu Ser Val Trp Glu Val
                               105
Ile Val Ala Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
                           120
Leu Leu Tyr Val Val Leu Met Pro Arg Arg Leu Cys Ile Gln Met Val
                       135
                                           140
Thr Gly Leu Tyr Ile Tyr Gly Phe Thr Met Gly Leu Ile Gln Ala Val
                                       155
                   150
Ala Thr Phe His Met Ser Phe Cys Asp Ser Asn Val Val Asn Gln Phe
               165
                                    170
Tyr Cys Asp Asp Val Pro Leu Ile Ala Leu Ala Cys Ser Asp Thr Gln
                                185
                                                    190
Val Lys Glu Leu Met Leu Phe Ile Ile Ala Ala Phe Asn Val Phe Cys
                            200
Ser Leu Ile Ile Val Leu Ile Ser Tyr Val Phe Ile Val Phe Ala Ile
                        215
                                            220
Leu Arg Ile His Ser Ala Val Gly Arg Gln Lys Ala Phe Ser Thr Cys
                    230
                                        235
Ala Ser His Met Phe Ser Ile Ser Ile Tyr Tyr Gly Thr Leu Ser Phe
                245
                                    250
Met Tyr Leu Gln Pro Lys Ser Ser His Ser Leu Asp Lys Asp Lys Phe
                                265
Ala Ser Val Phe Tyr Ala Val Val Ile Pro Met Leu Asn Pro Leu Ile
                           280
Tyr Ser Leu Arg Asn Gln Glu Val Lys Asn Ala Met Lys Lys Ile Ile
                       295
                                           300
Glu Lys Met Cys Ser Ser Asn Gln Gln Xaa Asn Leu Leu Val Leu Lys
                   310
                                        315
Glu Ile
<210> 1304
<211> 317
<212> PRT
<213> Unknown (H38g221 protein)
<220>
<223> Synthetic construct
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<400> 1304

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Met Ser Gln Val Thr Asn Thr Thr Gln Glu Gly Ile Tyr Phe Ile Leu
                5
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Thr Asp Ile Pro Gly Phe Glu Ala Ser His Ile Trp Ile Ser Ile Pro
                                25
Val Cys Cys Leu Tyr Thr Ile Ser Ile Met Gly Asn Thr Thr Ile Leu
                            40
Thr Val Ile Arg Thr Glu Pro Ser Val His Gln Arg Met Tyr Leu Phe
Leu Ser Met Leu Ala Leu Thr Asp Leu Gly Leu Thr Leu Thr Thr Leu
Pro Thr Val Met Gln Leu Leu Trp Phe Asn Val Arg Arg Ile Ser Ser
                85
                                    90
Glu Ala Cys Phe Ala Gln Phe Phe Phe Leu His Gly Phe Ser Phe Met
            100
                                105
Glu Ser Ser Val Leu Leu Ala Met Ser Val Asp Cys Tyr Val Ala Ile
        115
                           120
                                                125
Cys Cys Pro Leu His Tyr Ala Ser Ile Leu Thr Asn Glu Val Ile Gly
                       135
Arg Thr Gly Leu Ala Ile Ile Cys Cys Cys Val Leu Ala Val Leu Pro
                   150
                                        155
Ser Leu Phe Leu Lys Arg Leu Pro Phe Cys His Ser His Leu Leu
               165
                                   170
Ser Arg Ser Tyr Cys Leu His Gln Asp Met Ile Arg Leu Val Cys Ala
           180
                               185
Asp'Ile Arg Leu Asn Ser Trp Tyr Gly Phe Ala Leu Ala Leu Leu Ile
       195
                           200
                                             205
Ile Ile Val Asp Pro Leu Leu Ile Val Ile Ser Tyr Thr Leu Ile Leu
                       215
                                            220
Lys Asn Ile Leu Gly Thr Ala Thr Trp Ala Glu Arg Leu Arg Ala Leu
                    230
                                        235
Asn Asn Cys Leu Ser His Ile Leu Ala Val Leu Val Leu Tyr Ile Pro
               245
                                    250
Met Val Gly Val Ser Met Thr His Arg Phe Ala Lys His Ala Ser Pro
                               265
Leu Val His Val Ile Met Ala Asn Ile Tyr Leu Leu Ala Pro Pro Val
                           280
Met Asn Pro Ile Ile Tyr Ser Val Lys Asn Lys Gln Ile Gln Trp Gly
                       295
Met Leu Asn Phe Leu Ser Leu Lys Asn Met His Ser Arg
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<210> 1305

<211> 315

<212> PRT

<213> Unknown (H38g222 protein)

<220>

<223> Synthetic construct

<400> 1305

Met Asn Pro Ala Asn His Ser Gln Val Ala Gly Phe Val Leu Leu Gly 5 Leu Ser Gln Val Trp Glu Leu Arg Phe Val Phe Phe Thr Val Phe Ser 20 25 Ala Val Tyr Phe Met Thr Val Val Gly Asn Leu Leu Ile Val Val Ile 35 40 45 Val Thr Ser Asp Pro His Leu His Thr Thr Met Tyr Phe Leu Leu Gly 55 60 Asn Leu Ser Phe Leu Asp Phe Cys Tyr Ser Ser Ile Thr Ala Pro Arg 70 75 Met Leu Val Asp Leu Leu Ser Gly Asn Pro Thr Ile Ser Phe Gly Gly

```
85
                                    90
Cys Leu Thr Gln Leu Phe Phe Phe His Phe Ile Gly Gly Ile Lys Ile
                               105
           100
Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Ser Gln
                           120
       115
Pro Leu His Tyr Thr Leu Ile Met Asn Gln Thr Val Cys Ala Leu Leu
                       135
                                            140
Met Ala Ala Ser Trp Val Gly Gly Phe Ile His Ser Ile Val Gln Ile
                   150
                                       155
Ala Leu Thr Ile Gln Leu Pro Phe Cys Gly Pro Asp Lys Leu Asp Asn
                                   170
Phe Tyr Cys Asp Val Pro Gln Leu Ile Lys Leu Ala Cys Thr Asp Thr
            180
                               185
                                                   190
Phe Val Leu Glu Leu Met Val Ser Asn Asn Gly Leu Val Thr Leu
       195
                            200
Met Trp Phe Leu Val Leu Leu Gly Ser Tyr Thr Ala Leu Leu Val Met
                                           220
                       215
Leu Arg Ser His Ser Arg Glu Gly Arg Ser Lys Ala Leu Ser Thr Cys
                   230
                                       235
Ala Ser His Ile Ala Val Val Thr Leu Ile Phe Val Pro Cys Ile Tyr
                                   250
               245
Val Tyr Thr Arg Pro Phe Arg Thr Phe Pro Met Asp Lys Ala Val Ser
                               265
           260
Val Leu Tyr Thr Ile Val Thr Pro Met Leu Asn Pro Ala Ile Tyr Thr
                           280
                                               285
Leu Arg Asn Lys Glu Val Ile Met Ala Met Lys Lys Leu Trp Arg Arg
                       295
                                          300
Lys Lys Asp Pro Ile Gly Pro Leu Glu His Arg
                   310
<210> 1306
<211> 320
<212> PRT
<213> Unknown (H38g223 protein)
<220>
<223> Synthetic construct
<400> 1306
Met Ser Phe Leu Asn Gly Thr Ser Leu Thr Pro Ala Ser Phe Ile Leu
                                   10
1
Asn Gly Ile Pro Gly Leu Glu Asp Val His Leu Trp Ile Ser Phe Pro
                                25
Leu Cys Thr Met Tyr Ser Ile Ala Ile Thr Gly Asn Phe Gly Leu Met
                            40
Tyr Leu Ile Tyr Cys Asp Glu Ala Leu His Arg Pro Met Tyr Val Phe
                                            60
                       55
Leu Ala Leu Leu Ser Phe Thr Asp Val Leu Met Cys Thr Ser Thr Leu
                   70
                                       75
Pro Asn Thr Leu Phe Ile Leu Trp Phe Asn Leu Lys Glu Ile Asp Phe
               85
                                   90
Lys Ala Cys Leu Ala Gln Met Phe Phe Val His Thr Phe Thr Gly Met
           100
                               105
                                                   110
Glu Ser Gly Val Leu Met Leu Met Ala Leu Asp His Cys Val Ala Ile
                                               125
                           120
Cys Phe Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asn Ser Val Ile Ala
                       135
                                           140
Lys Ala Gly Phe Leu Thr Phe Leu Arg Gly Val Met Leu Val Ile Pro
                   150
                                       155
Ser Thr Phe Leu Thr Lys Arg Leu Pro Tyr Cys Lys Gly Asn Val Ile
                                    170
```

```
Pro His Thr Tyr Cys Asp His Met Ser Val Ala Lys Ile Ser Cys Gly
            180
                               185
Asn Val Arg Val Asn Ala Ile Tyr Gly Leu Ile Val Ala Leu Leu Ile
        195
                            200
                                                205
Gly Gly Phe Asp Ile Leu Cys Ile Thr Ile Ser Tyr Thr Met Ile Leu
                       215
                                            220
Gln Ala Val Val Ser Leu Ser Ser Ala Asp Ala Arg Gln Lys Ala Phe
                    230
                                        235
Ser Thr Cys Thr Ala His Phe Cys Ala Ile Val Leu Thr Tyr Val Pro
                                    250
Ala Phe Phe Thr Phe Phe Thr His His Phe Gly Gly His Thr Ile Pro
            260
                                265
Leu His Ile His Ile Ile Met Ala Asn Leu Tyr Leu Leu Met Pro Pro
       275
                           280
                                                285
Thr Met Asn Pro Ile Val Tyr Gly Val Lys Thr Arg Gln Val Arg Glu
                       295
                                            300
Ser Val Ile Arg Phe Phe Leu Lys Gly Lys Asp Asn Ser His Asn Phe
                                        315
<210> 1307
<211> 305
<212> PRT
<213> Unknown (H38g224 protein)
<220>
<223> Synthetic construct
<400> 1307
Met Val Ala Thr Asn Asn Val Thr Glu Ile Ile Phe Val Gly Phe Ser
                - 5
                                    10
Gln Asn Trp Ser Glu Gln Arg Val Ile Ser Val Met Phe Leu Leu Met
           20
                                25
Tyr Thr Ala Val Val Leu Gly Asn Gly Leu Ile Val Val Thr Ile Leu
                           40
Ala Ser Lys Val Leu Thr Ser Pro Met Tyr Phe Phe Leu Ser Tyr Leu
                       55
                                            60
Ser Phe Val Glu Ile Cys Tyr Cys Ser Val Met Ala Pro Lys Leu Ile
                   70
                                        75
Phe Asp Ser Phe Ile Lys Arg Lys Val Ile Ser Leu Lys Gly Cys Leu
```

85 90 Thr Gln Met Phe Ser Leu His Phe Phe Gly Gly Thr Glu Ala Phe Leu 100 105 110 Leu Met Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu 115 120 125 His Tyr Met Ala Ile Met Asn Gln Arg Met Cys Gly Leu Leu Val Arg 135 140 Ile Ala Trp Gly Gly Leu Leu His Ser Val Gly Gln Thr Phe Leu 150 155 Ile Phe Gln Leu Pro Phe Cys Gly Pro Asn Ile Met Asp His Tyr Phe 165 170 175 Cys Asp Val His Pro Val Leu Glu Leu Ala Cys Ala Asp Thr Phe Phe 180 185 Ile Ser Leu Leu Ile Ile Thr Asn Gly Gly Ser Ile Ser Val Val Ser 200 205 Phe Phe Val Leu Met Ala Ser Tyr Leu Ile Ile Leu His Phe Leu Arg 215 220 Ser His Asn Leu Glu Gly Gln His Lys Ala Leu Ser Thr Cys Ala Ser 230 235

His Val Thr Val Val Asp Leu Phe Phe Ile Pro Cys Ser Leu Val Tyr

Ile Arg Pro Cys Val Thr Leu Pro Ala Asp Lys Ile Val Ala Val Phe

250

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260
                               265
Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Val Ile Tyr Ser Phe Arg
                 280
                                             285
Asn Ala Glu Val Lys Asn Ala Met Arg Arg Phe Ile Gly Gly Lys Val
                295
                                          300
Ile
305
<210> 1308
<211> 313
<212> PRT
<213> Unknown (H38g225 protein)
<220>
<223> Synthetic construct
<400> 1308
Met Ala Pro Glu Asn Phe Thr Arg Val Thr Glu Phe Ile Leu Thr Gly
                                   10
Val Ser Ser Cys Pro Glu Leu Gln Ile Pro Leu Phe Leu Val Phe Leu
       20
                              25
Val Leu Tyr Gly Leu Thr Met Ala Gly Asn Leu Gly Ile Ile Thr Leu
      35
                           40
                                              45
Thr Ser Val Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Gln
                       55
                                           60
His Leu Ala Leu Ile Asn Leu Gly Asn Ser Thr Val Ile Ala Pro Lys
                   70
                                       75
Met Leu Ile Asn Phe Leu Val Lys Lys Lys Thr Thr Ser Phe Tyr Glu
                                   90
Cys Ala Thr Gln Leu Gly Gly Phe Leu Phe Phe Ile Val Ser Glu Val
                               105
Ile Met Leu Ala Leu Met Ala Cys Asp Arg Tyr Val Ala Ile Cys Asn
                           120
                                               125
Pro Leu Leu Tyr Met Val Val Ser Arg Arg Leu Cys Leu Leu
                       135
                                           140
Val Ser Leu Thr Tyr Leu Tyr Gly Phe Ser Thr Ala Ile Val Val Ser
                   150
                                       155
Ser Tyr Val Phe Ser Val Ser Tyr Cys Ser Ser Asn Ile Ile Asn His
                                  170
Phe Tyr Cys Asp Asn Val Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr
                              185
Tyr Leu Pro Glu Thr Val Val Phe Ile Ser Ala Ala Thr Asn Val Val
                           200
                                              205
Gly Ser Leu Ile Ile Val Leu Val Ser Tyr Phe Asn Ile Val Leu Ser
                      215
                                          220
Ile Leu Lys Ile Cys Ser Ser Glu Gly Arg Lys Lys Ala Phe Ser Thr
                  230
                                      235
Cys Ala Ser His Met Met Ala Val Thr Ile Phe Tyr Gly Thr Leu Leu
               245
                                   250
Phe Met Tyr Val Gln Pro Arg Ser Asn His Ser Leu Asp Thr Asp Asp
           260
                              265
Lys Met Ala Ser Val Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro
                          280
Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Thr Ala Leu Gln Arg
                      295
                                          300
Phe Met Thr Asn Leu Cys Tyr Ser Phe
                   310
<210> 1309
<211> 326
<212> PRT
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624

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<213> Unknown (H38g226 protein)
 <223> Synthetic construct
<221> VARIANT
 <222> (1)...(326)
<223> Xaa = Any Amino Acid
<400> 1309
Met Lys Ile Ser Asn Asn Ser Leu Gly Phe Leu Pro Thr Thr Phe Ile
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                                    10
Leu Val Gly Ile Pro Gly Leu Glu Ser Glu His Leu Trp Ile Ser Val
                                25
Pro Phe Ser Leu Ile Tyr Ile Ile Phe Leu Gly Asn Gly Ile Ile
                            40
Leu His Val Ile Arg Thr Asp Ile Ala Leu His Gln Pro Met Tyr Leu
                        55
Phe Leu Ala Met Leu Ala Leu Ala Glu Val Arg Val Ser Ala Ser Thr
                   70
                                        75
Leu Pro Thr Val Leu Gly Ile Phe Leu Phe Gly Asn Thr Glu Ile Ser
               85
                                    90
Leu Glu Ala Phe Phe Phe Gln Met Phe Ser Ile His Ser Leu Ser Met
                               105
Met Glu Ser Ala Val Leu Leu Ala Met Ser Leu Asp Arg Phe Ile Ala
                           120
Ile Tyr Ser Pro Leu Ser Tyr Thr Ala Ile Leu Thr Leu Pro Arg Val
                    135
                                           140
Phe Gly Thr Gly Ala Ile Ile Val Leu Lys Ser Ile Met Leu Met Ala
                   150
                                       155
Pro Leu Pro Ile Leu Leu Trp Arg Leu Pro Phe Cys Gly His Asn Ala
                                    170
Leu Ser His Ser Tyr Cys Leu His Pro Asn Leu Ile Tyr Leu Ser Cys
            180
                                185
                                                   190
Gly Asn Ile Ser Val Asn Asn Ile Tyr Gly Ile Phe Ile Val Thr Ser
                                               205
                           200
Thr Phe Gly Leu Asp Ser Leu Leu Ile Val Ile Ser Tyr Gly Leu Ile
                       215
                                           220
Leu His Thr Val Leu Gly Ile Ala Thr Gly Glu Gly Arg Lys Lys Ala
                   230
                                       235
Leu Asn Thr Cys Gly Ser His Val Cys Ala Val Leu Ala Tyr Tyr Val
               245
                            . 250
Pro Met Ile Gly Leu Ser Ile Val His Arg Leu Gly His Arg Val Ser
           260
                               265
Pro Leu Gln Ala Met Met Ala Asn Ala Tyr Leu Phe Pro Pro
                           280
                                               285
Val Val Asn Pro Ile Val Tyr Ser Ile Lys Thr Lys Glu Ile His Gly
                       295
Ala Ile Val Arg Met Leu Leu Glu Lys Arg Arg Arg Val Xaa Pro Lys
                  310
                                       315
Thr Ile Val Gly Arg Asn
               325
<210> 1310
<211> 311
<212> PRT
<213> Unknown (H38g227 protein)
<220>
<223> Synthetic construct
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<400> 1310
Met Ser Lys Thr Ser Leu Val Thr Ala Phe Ile Leu Thr Gly Leu Pro
                                    10
His Ala Pro Gly Leu Asp Ala Pro Leu Phe Gly Ile Phe Leu Val Val
Tyr Val Leu Thr Val Leu Gly Asn Leu Leu Ile Leu Leu Val Ile Arg
                            40
Val Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Thr Asn Leu
                        55
                                            60
Ser Phe Ile Asp Met Trp Phe Ser Thr Val Thr Val Pro Lys Met Leu
                                        75
                    70
Met Thr Leu Val Ser Pro Ser Gly Arg Ala Ile Ser Phe His Ser Cys
                                    90
               85
Val Ala Gln Leu Tyr Phe Phe His Phe Leu Gly Ser Thr Glu Cys Phe
                                105
Leu Tyr Thr Val Met Ser Tyr Asp Arg Tyr Leu Ala Ile Ser Tyr Pro
                            120
Leu Arg Tyr Thr Ser Met Met Ser Gly Ser Arg Cys Ala Leu Leu Ala
                       135
                                           140
Thr Ser Thr Trp Leu Ser Gly Ser Leu His Ser Ala Val Gln Thr Ile
                   150
                                       155
Leu Thr Phe His Leu Pro Tyr Cys Gly Pro Asn Gln Ile Gln His Tyr
               165
                                   170
Leu Cys Asp Ala Pro Pro Ile Leu Lys Leu Ala Cys Ala Asp Thr Ser
           180
                               185
Ala Asn Glu Met Val Ile Phe Val Asp Ile Gly Leu Val Ala Ser Gly
                            200
Cys Phe Leu Leu Ile Val Leu Ser Tyr Val Ser Ile Val Cys Ser Ile
                                            220
                        215
Leu Arg Ile His Thr Ser Glu Gly Arg His Arg Ala Phe Gln Thr Cys
                                        235
Ala Ser His Cys Ile Val Val Leu Cys Phe Phe Val Pro Cys Val Phe
                245
                                    250
Ile Tyr Leu Arg Pro Gly Ser Arg Asp Val Val Asp Gly Val Val Ala
            260
                                265
                                                    270
Ile Phe Tyr Thr Val Leu Thr Pro Leu Leu Asn Pro Val Val Tyr Thr
        275
                            280
Leu Arg Asn Lys Glu Val Lys Lys Ala Val Leu Lys Leu Arg Asp Lys
                        295
Val Ala His Ser Gln Gly Glu
<210> 1311
<211> 312
<212> PRT
<213> Unknown (H38g228 protein)
<220>
<223> Synthetic construct
<400> 1311
Met Pro Ser Ile Asn Asp Thr His Phe Tyr Pro Pro Phe Phe Leu Leu
Leu Gly Ile Pro Gly Leu Asp Thr Leu His Ile Trp Ile Ser Phe Pro
Phe Cys Ile Val Tyr Leu Ile Ala Ile Val Gly Asn Met Thr Ile Leu
                            40
Phe Val Ile Lys Thr Glu His Ser Leu His Gln Pro Met Phe Tyr Phe
                        55
Leu Ala Met Leu Ser Met Ile Asp Leu Gly Leu Ser Thr Ser Thr Ile
                                        75
             . 70
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Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Leu Gln Glu Ile Ser Phe
                                    90
Gly Gly Cys Leu Leu Gln Met Phe Phe Ile His Met Phe Thr Gly Met
                                105
            100
Glu Thr Val Leu Leu Val Val Met Ala Tyr Asp Arg Phe Val Ala Ile
                                                125
                            120
        115
Cys Asn Pro Leu Gln Tyr Thr Met Ile Leu Thr Asn Lys Thr Ile Ser
                        135
                                           140
Ile Leu Ala Ser Val Val Val Gly Arg Asn Leu Val Leu Val Thr Pro
                                       155
                   150
Phe Val Phe Leu Ile Leu Arg Leu Pro Phe Cys Gly His Asn Ile Val
                                   170
               165
Pro His Thr Tyr Cys Glu His Arg Gly Leu Ala Gly Leu Ala Cys Ala
                                185
           180
Pro Ile Lys Ile Asn Ile Ile Tyr Gly Leu Met Val Ile Ser Tyr Ile
                            200
                                                205
Ile Val Asp Val Ile Leu Ile Ala Ser Ser Tyr Val Leu Ile Leu Arg
                                            220
                        215
Ala Val Phe Arg Leu Pro Ser Gln Asp Val Arg Leu Lys Ala Phe Asn
                                       235
                    230
Thr Cys Gly Ser His Val Cys Val Met Leu Cys Phe Tyr Thr Pro Ala
                                   250
               245
Phe Phe Ser Phe Met Thr His Arg Phe Gly Gln Asn Ile Pro His Tyr
                               265
Ile His Ile Leu Leu Ala Asn Leu Tyr Val Val Val Pro Pro Ala Leu
                           280
Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Gln Ile Arg Glu Gln Ile
                                            300
                        295
Val Lys Ile Phe Val Gln Lys Glu
<210> 1312
<211> 303
<212> PRT
<213> Unknown (H38g229 protein)
<223> Synthetic construct
<400> 1312
Met Thr Glu Phe Ile Phe Leu Val Leu Ser Pro Asn Gln Glu Val Gln
                                    10
Arg Val Cys Phe Val Ile Phe Leu Phe Leu Tyr Thr Ala Ile Val Leu
                                25
            20
Gly Asn Phe Leu Ile Val Leu Thr Val Met Thr Ser Arg Ser Leu Gly
                            40
                                                45
Ser Pro Met Tyr Phe Phe Leu Ser Tyr Leu Ser Phe Met Glu Ile Cys
                                            60
                        55
Tyr Ser Ser Ala Thr Ala Pro Lys Leu Ile Ser Asp Leu Leu Ala Glu
                                        75
                    70
Arg Lys Val Ile Ser Trp Trp Gly Cys Met Ala Gln Leu Phe Phe Leu
                                    90
                85
His Phe Phe Gly Gly Thr Glu Ile Phe Leu Leu Thr Val Met Ala Tyr
                                105
            100
Asp His Tyr Val Ala Ile Cys Lys Pro Leu Ser Tyr Thr Thr Ile Met
                            120
Asn Trp Gln Val Cys Thr Val Leu Val Gly Ile Ala Trp Val Gly Gly
                                            140
                        135
```

155

Phe Met His Ser Phe Ala Gln Ile Leu Leu Ile Phe His Leu Leu Phe

Cys Gly Pro Asn Val Ile Asn His Tyr Phe Cys Asp Leu Val Pro Leu

150

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165
                                    170
Leu Lys Leu Ala Cys Ser Asp Thr Phe Leu Ile Gly Leu Leu Ile Val
            180
                                185
Ala Asn Gly Gly Thr Leu Ser Val Ile Ser Phe Gly Val Leu Leu Ala
                            200
Ser Tyr Met Val Ile Leu Leu His Leu Arg Thr Trp Ser Ser Glu Gly
                       215
                                            220
Trp Cys Lys Ala Leu Ser Thr Cys Gly Ser His Phe Ala Val Val Ile
                    230
                                       235
Leu Phe Phe Gly Pro Cys Val Phe Asn Ser Leu Arg Pro Ser Thr Thr
               245
                                    250
Leu Pro Ile Asp Lys Met Val Ala Val Phe Tyr Thr Val Ile Thr Ala
                               265
Ile Leu Asn Pro Val Ile Tyr Ser Leu Arg Asn Ala Glu Met Arg Lys
                           280
Ala Met Lys Arg Leu Trp Ile Arg Thr Leu Arg Leu Asn Glu Lys
                        295
<210> 1313
<211> 316
<212> PRT
<213> Unknown (H38g230 protein)
<220>
<223> Synthetic construct
<400> 1313
Leu Ile Ala Thr Gly Asn Trp Thr Arg Ile Ser Glu Phe Ile Leu Met
 1
Ser Phe Ser Ser Leu Pro Thr Glu Ile Gln Ser Leu Leu Phe Leu Thr
            20
                                25
Phe Leu Thr Ile Tyr Leu Val Thr Leu Met Gly Asn Cys Leu Ile Ile
                            40
Leu Val Thr Leu Ala Asp Pro Met Leu His Ser Pro Met Tyr Phe Phe
                       55
Leu Arg Asn Leu Ser Phe Leu Glu Ile Gly Phe Asn Leu Val Ile Val
                                        75
Pro Lys Met Leu Gly Thr Leu Leu Ala Gln Asp Thr Thr Ile Ser Phe
                                    90
Leu Gly Cys Ala Thr Gln Met Tyr Phe Phe Phe Phe Gly Val Ala
           100
                               105
Glu Cys Phe Leu Gln Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile
                           120
                                               125
Cys Ser Pro Leu His Tyr Pro Val Ile Met Asn Gln Arg Thr Arg Ala
                       135
                                           140
Lys Leu Ala Ala Ala Ser Trp Phe Pro Gly Phe Pro Val Ala Thr Val
                   150
                                       155
Gln Thr Trp Leu Phe Ser Phe Pro Phe Cys Gly Thr Asn Lys Val
               165
                                    170
Asn His Phe Phe Cys Asp Ser Pro Pro Val Leu Arg Leu Val Cys Ala
           180
                               185
Asp Thr Ala Leu Phe Glu Ile Tyr Ala Ile Val Gly Thr Ile Leu Val
                            200
                                               205
Val Met Ile Pro Cys Leu Leu Ile Leu Cys Ser Tyr Thr Arg Ile Ala
                        215
                                            220
Ala Ala Ile Leu Lys Ile Pro Ser Ala Lys Gly Lys Asn Lys Ala Phe
                   230
                                       235
Ser Thr Cys Ser Ser His Leu Leu Val Val Ser Leu Phe Tyr Ile Ser
               245
                                   250
Leu Ser Leu Thr Tyr Phe Arg Pro Lys Ser Asn Asn Ser Pro Glu Gly
                               265
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```
Thr Lys Leu Ser Leu Ser Tyr Thr Val Met Thr Pro Met Leu Asn
                           280
                                               285
Pro Ile Ile Tyr Ser Leu Arg Asn Asn Glu Val Lys Asn Ala Leu Ser
                                          300
                       295
Arg Thr Val Ser Lys Ala Leu Gly Pro Gln Lys Leu
                   310
<210> 1314
<211> 309
<212> PRT
<213> Unknown (H38g231 protein)
<220>
<223> Synthetic construct
<400> 1314
Met Pro Asn Phe Thr Asp Val Thr Glu Phe Thr Leu Leu Gly Leu Thr
                                   10
                5
Cys Arg Gln Glu Leu Gln Val Leu Phe Phe Val Val Phe Leu Ala Val
         20
                               25
Tyr Met Ile Thr Leu Leu Gly Asn Ile Gly Met Ile Ile Leu Ile Ser
                           40
 35
Ile Ser Pro Gln Leu Gln Ser Pro Met Tyr Phe Phe Leu Ser His Leu
                                          60
                       55
Ser Phe Ala Asp Val Cys Phe Ser Ser Asn Val Thr Pro Lys Met Leu
                  70
                           75
Glu Asn Leu Leu Ser Glu Thr Lys Thr Ile Ser Tyr Val Gly Cys Leu
                                   90
                                                       95
              85
Val Gln Cys Tyr Phe Phe Ile Ala Val Val His Val Glu Val Tyr Ile
                               105
Leu Ala Val Met Ala Phe Asp Arg Tyr Met Ala Gly Cys Asn Pro Leu
                                               125
                           120
Leu Tyr Gly Ser Lys Met Ser Arg Thr Val Cys Val Arg Leu Ile Ser
                      135
Val Pro Tyr Val Tyr Gly Phe Ser Val Ser Leu Ile Cys Thr Leu Trp
                   150
                                      155
Thr Tyr Gly Leu Tyr Phe Cys Gly Asn Phe Glu Ile Asn His Phe Tyr
                                  170
                                                       175
               165
Cys Ala Asp Pro Pro Leu Ile Gln Ile Ala Cys Gly Arg Val His Ile
                               185
                                                   190
           180
Lys Glu Ile Thr Met Ile Val Ile Ala Gly Ile Asn Phe Thr Tyr Ser
                                               205
                           200
       195
Leu Ser Val Val Leu Ile Ser Tyr Thr Leu Ile Val Val Ala Val Leu
                      215
                                           220
   210
Arg Met Arg Ser Ala Asp Gly Arg Arg Lys Ala Phe Ser Thr Cys Gly
                  230
                                      235
Ser His Leu Thr Ala Val Ser Met Phe Tyr Gly Thr Pro Ile Phe Met
               245
                                  250
Tyr Leu Arg Arg Pro Thr Glu Glu Ser Val Glu Gln Gly Lys Met Val
                               265
                                                   270
           260
Ala Val Phe Tyr Thr Thr Val Ile Pro Met Leu Asn Pro Met Ile Tyr
                           280
                                               285
Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Val Asn Lys Ala Ile Thr
                       295
                                           300
Lys Thr Tyr Val Arg
305
<210> 1315
<211> 320
<212> PRT
<213> Unknown (H38g232 protein)
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<220> <223> Synthetic construct <400> 1315 Met Leu His Thr Asn Asn Thr Gln Phe His Pro Ser Thr Phe Leu Val 10 Val Gly Val Pro Gly Leu Glu Asp Val His Val Trp Ile Gly Phe Pro 25 Phe Phe Ala Val Tyr Leu Thr Ala Leu Leu Gly Asn Ile Ile Leu 40 Phe Val Ile Gln Thr Glu Gln Ser Leu His Gln Pro Met Phe Tyr Phe Leu Ala Met Leu Ala Gly Thr Asp Leu Gly Leu Ser Thr Ala Thr Ile 70 Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Leu Gly Glu Ile Ala Phe 90 Gly Ala Cys Ile Thr Gln Met Tyr Thr Ile His Ile Cys Thr Gly Leu 105 100 Glu Ser Val Val Leu Thr Val Thr Gly Ile Asp Arg Tyr Ile Ala Ile 125 120 Cys Asn Pro Leu Arg Tyr Ser Met Ile Leu Thr Asn Lys Val Ile Ala 135 140 Ile Leu Gly Ile Val Ile Ile Val Arg Thr Leu Val Phe Val Thr Pro 150 155 Phe Thr Phe Leu Thr Leu Arg Leu Pro Phe Cys Gly Val Arg Ile Ile 170 Pro His Thr Tyr Cys Glu His Met Gly Leu Ala Lys Leu Ala Cys Ala 180 185 Ser Ile Asn Val Ile Tyr Gly Leu Ile Ala Phe Ser Val Gly Tyr Ile 200 Asp Ile Ser Val Ile Gly Phe Ser Tyr Val Gln Ile Leu Arg Ala Val 215 220 Phe His Leu Pro Ala Trp Asp Ala Arg Leu Lys Ala Leu Ser Thr Cys 230 235 Gly Ser His Val Cys Val Met Leu Ala Phe Tyr Leu Pro Ala Leu Phe 250 Ser Phe Met Thr His Arg Phe Gly His Asn Ile Pro His Tyr Ile His 270 260 265 Ile Leu Leu Ala Asn Leu Tyr Val Val Phe Pro Pro Ala Leu Asn Ser 280 Val Ile Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Gln Val Leu Arg 295 300 Ile Leu Asn Pro Lys Ser Phe Trp His Phe Asp Pro Lys Arg Ile Phe 310 315 <210> 1316 <211> 312 <212> PRT <213> Unknown (H38g233 protein) <220> <223> Synthetic construct <400> 1316 Met Glu Gln His Asn Leu Thr Thr Val Asn Glu Phe Ile Leu Thr Gly 10 Ile Thr Asp Ile Ala Glu Leu Gln Ala Pro Leu Phe Ala Leu Phe Leu 25 Met Ile Tyr Val Ile Ser Val Met Gly Asn Leu Gly Met Ile Val Leu

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Thr Lys Leu Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg
                       55
                                           60
His Leu Ala Phe Met Asp Leu Gly Tyr Ser Thr Thr Val Gly Pro Lys
                                       75
                   70
Met Leu Val Asn Phe Val Val Asp Lys Asn Ile Ile Ser Tyr Tyr Phe
                                   90
Cys Ala Thr Gln Leu Ala Phe Phe Leu Val Phe Ile Gly Ser Glu Leu
                               105
           100
Phe Ile Leu Ser Ala Met Ser Tyr Asp Leu Tyr Val Ala Ile Cys Asn
                           120
Pro Leu Leu Tyr Thr Val Ile Met Ser Arg Arg Val Cys Gln Val Leu
                                           140
                       135
Val Ala Ile Pro Tyr Leu Tyr Cys Thr Phe Ile Ser Leu Leu Val Thr
                   150
                                      155
Ile Lys Ile Phe Thr Leu Ser Phe Cys Gly Tyr Asn Val Ile Ser His
                                   170
               165
Phe Tyr Cys Asp Ser Leu Pro Leu Leu Pro Leu Cys Ser Asn Thr
                                                   190
                               185
           180
His Glu Ile Glu Leu Ile Ile Leu Ile Phe Ala Ala Ile Asp Leu Ile
                           200
                                               205
Ser Ser Leu Leu Ile Val Leu Leu Ser Tyr Leu Leu Ile Leu Val Ala
                                           220
                       215
Ile Leu Arg Met Asn Ser Ala Gly Arg Gln Lys Ala Phe Ser Thr Cys
                                       235
                  230
Gly Ala His Leu Thr Val Val Ile Val Phe Tyr Gly Thr Leu Leu Phe
                                   250
               245
Met Tyr Val Gln Pro Lys Ser Ser His Ser Phe Asp Thr Asp Lys Val
                               265
Ala Ser Ile Phe Tyr Thr Leu Val Ile Pro Met Leu Asn Pro Leu Ile
                           280
       275
Tyr Ser Leu Arg Asn Lys Asp Val Lys Tyr Ala Leu Arg Arg Thr Trp
                       295
                                           300
Asn Asn Leu Cys Asn Ile Phe Val
                   310
<210> 1317
<211> 315
<212> PRT
<213> Unknown (H38g234 protein)
<220>
<223> Synthetic construct
<400> 1317
Met Met Trp Glu Asn Trp Thr Ile Val Ser Glu Phe Val Leu Val Ser
                                   10
Phe Ser Ala Leu Ser Thr Glu Leu Gln Ala Leu Leu Phe Leu Leu Phe
                               25
           20
Leu Thr Ile Tyr Leu Val Thr Leu Met Gly Asn Val Leu Ile Ile Leu
                                               45
                           40
Val Thr Ile Ala Asp Ser Ala Leu Gln Ser Pro Met Tyr Phe Phe Leu
                       55
                                           60
Arg Asn Leu Ser Phe Leu Glu Ile Gly Phe Asn Leu Val Ile Val Pro
                                       75
                   70
Lys Met Leu Gly Thr Leu Ile Ile Gln Asp Thr Thr Ile Ser Phe Leu
                                    90
               85
Gly Cys Ala Thr Gln Met Tyr Phe Phe Phe Phe Gly Ala Ala Glu
                               105
                                                   110
Cys Cys Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
                           120
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Asp Pro Leu His Tyr Pro Val Ile Met Gly His Ile Ser Cys Ala Gln

```
135
                                            140
Leu Ala Ala Ala Ser Trp Phe Ser Gly Phe Ser Val Ala Thr Val Gln
                                     155
                   150
Thr Thr Trp Ile Phe Ser Phe Pro Phe Cys Gly Pro Asn Arg Val Asn
               165
                                   170
His Phe Phe Cys Asp Ser Pro Pro Val Ile Ala Leu Val Cys Ala Asp
                               185
            180
                                                   190
Thr Ser Val Phe Glu Leu Glu Ala Leu Thr Ala Thr Val Pro Phe Ile
       195
                            200
                                                205
Leu Phe Pro Phe Leu Leu Ile Leu Gly Ser Tyr Val Arg Ile Leu Ser
                        215
                                            220
Thr Ile Phe Arg Met Pro Ser Ala Glu Gly Lys His Gln Ala Phe Ser
                    230
                                        235
Thr Cys Ser Ala His Leu Leu Val Val Ser Leu Phe Tyr Ser Thr Ala
                                    250
                245
Ile Leu Thr Tyr Phe Arg Pro Gln Ser Ser Ala Ser Ser Glu Ser Lys
                                265
Lys Leu Leu Ser Leu Ser Ser Thr Val Val Thr Pro Met Leu Asn Pro
        275
                            280
                                                285
Ile Ile Tyr Ser Ser Arg Asn Lys Glu Val Lys Ala Ala Leu Lys Arg
                       295
                                            300
Leu Ile His Arg Thr Leu Gly Ser Gln Lys Leu
                   310
<210> 1318
<211> 310
<212> PRT
<213> Unknown (H38g235 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(310)
<223> Xaa = Any Amino Acid
<400> 1318
Met Ala Lys Thr Asn Asn Ser Glu Val Thr Glu Phe Ile Leu Leu Gly
                5
                                    10
Leu Thr Asp Asn Pro Glu Leu Gln Ala Leu Phe Trp Gly Ile Phe Leu
            20
                                25
Val Ile Asn Leu Ser Ser Val Met Gly Ser Leu Gly Leu Ile Met Leu
                            40
Ile His Ile Ser Pro Gln Leu His Thr Ala Met Tyr Phe Phe Leu Ser
                        55
                                            60
His Val Ala Phe Val Tyr Phe Cys Tyr Thr Ser Ser Ile Thr Pro Asn
                    70
                                        75
Ser Leu Val Asn Leu Leu Gln Glu Thr Lys Arg Ile Ser Leu Pro Thr
                                    90
                85
Cys Ala Ser Gln Leu His Cys Phe Ile Met Phe Val Val Cys Asp Met
                               105
Tyr Val Leu Ser Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
                            120
                                               125
Pro Leu Leu Tyr Ser Ile Ile Met Asn Arg Arg Val Cys Ile Gln Met
                       135
                                           140
Val Val Ser Thr Tyr Leu Tyr Gly Phe Ser Val Arg Leu Leu Gln Ala
                   150
                                       155
Ile Leu Thr Phe His Leu Ser Phe Xaa Asp Ser Asn Ile Ile Asn Asn
              165
                                   170
Ser Tyr Cys Asp Asp Val Pro Leu Ala Cys Leu Pro Tyr His Lys Asn
            180
                               185
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His Tyr Lys Asp Val Lys Glu Leu Ile Leu Phe Thr Leu Ala Gly Phe
                           200
Asn Thr Leu Phe Ser Leu Leu Ile Ile Leu Ile Ser Tyr Ile Ser Val
                       215
                                            220
Leu Ser Ala Ile Leu Arg Ile Asn Ser Ala Glu Ser Arg Gln Lys Ala
                   230
                                       235
Phe Ser Thr Cys Asp Ser His Leu Thr Ser Ile Ile Phe Tyr Gly
                                   250
               245
Ile Ile Thr Phe Met Tyr Met Gln Xaa Lys Thr Asn Asn Ser Leu Asp
                               265
           260
Thr Asp Lys Ile Ala Ser Val Phe Cys Ile Val Lys Ile Pro Ser Ile
                                                285
       275
                           280
Tyr Ser Leu Arg Asn His Glu Val Lys Asp Ala Leu Lys Met Ile Met
                    295
                                            300
Glu Asn Leu Cys Leu Thr
                    310
<210> 1319
<211> 184
<212> PRT
<213> Unknown (H38g236 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(184)
<223> Xaa = Any Amino Acid
<400> 1319
Leu Val Lys Val Lys Lys Asn Xaa Asn Ile Phe Leu Ser Thr Ala Tyr
                5
                                    10
His Phe Phe Pro Thr Leu Ser Val Asn Asn Asn Lys Phe Leu Xaa Ile
                               25
Ile Asn Asn Asn Phe Xaa Val Xaa Phe Asn Leu His Ser Glu Thr Ser
                           40
His Ser Xaa Val Tyr Ser Leu Val Leu Ser Ser Lys Val Cys Ile Leu
                        55
Leu Ala Ala Gly Val Val Gly Gly Ile Leu Ser Arg Arg Ile Val Cys
                                       75
                    70
Gly Pro Thr Val Ser Leu Ser Ser Ser Arg Ser Asn Ala Ile Asn His
                                   90
               85
Phe Phe Cys Asn Lys Ser Leu Gly Leu Gly Leu Ser Cys Tyr Asn Ile
                                                   110
                               105
Tyr Ile Ser Thr Ala Val Pro Ala Phe Val Gly Val Xaa Val Leu His
                                                125
                           120
Ser Leu Pro Tyr Leu Val Ile Met Phe Ser Trp Thr Tyr Ile Leu Val
                      135
                                           140
Ala Ile Lys Arg Met Ser Ser Val Gly Arg Lys Glu Leu Ser Ile Cys
                   150
                                        155
Val Ser His Leu Lys Thr Ser Thr Ile Phe His Thr Ala Leu Phe Tyr
                                    170
               165
Val Tyr Leu Gln Pro Asp Phe Phe
           180
<210> 1320
<211> 321
<212> PRT
<213> Unknown (H38g237 protein)
<220>
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## <223> Synthetic construct

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<400> 1320
Met Ser Gly Asp Asn Ser Ser Ser Leu Thr Pro Gly Phe Phe Ile Leu
                                   10
Asn Gly Val Pro Gly Leu Glu Ala Thr His Ile Trp Ile Ser Leu Pro
                               25
Phe Cys Phe Met Tyr Ile Ile Ala Val Val Gly Asn Cys Gly Leu Ile
                           40
Cys Leu Ile Ser His Glu Glu Ala Leu His Arg Pro Met Tyr Tyr Phe
Leu Ala Leu Leu Ser Phe Thr Asp Val Thr Leu Cys Thr Thr Met Val
                   70
                                       75
Pro Asn Met Leu Cys Ile Phe Trp Phe Asn Leu Lys Glu Ile Asp Phe
               85
                                   90
Asn Ala Cys Leu Ala Gln Met Phe Phe Val His Met Leu Thr Gly Met
           100
                              105
                                                  110
Glu Ser Gly Val Leu Met Leu Met Ala Leu Asp Arg Tyr Val Ala Ile
                          120
                                              125
       115
Cys Tyr Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asn Pro Val Ile Ala
                      135
                                          140
Lys Ala Gly Leu Ala Thr Phe Leu Arg Asn Val Met Leu Ile Ile Pro
                   150
                                      155
Phe Thr Leu Leu Thr Lys Arg Leu Pro Tyr Cys Arg Gly Asn Phe Ile
               165
                                  170
Pro His Thr Tyr Cys Asp His Met Ser Val Ala Lys Val Ser Cys Gly
           180
                              185
Asn Phe Lys Val Asn Ala Ile Tyr Gly Leu Met Val Ala Leu Leu Ile
      195
                          200
                                             205
Gly Val Phe Asp Ile Cys Cys Ile Ser Val Ser Tyr Thr Met Ile Leu
                      215
                                         220
Gln Ala Val Met Ser Leu Ser Ser Ala Asp Ala Arg His Lys Ala Phe
                   230
                                      235
Ser Thr Cys Thr Ser His Met Cys Ser Ile Val Ile Thr Tyr Val Ala
                                   250
Ala Phe Phe Thr Phe Phe Thr His Arg Phe Val Gly His Asn Ile Pro
                               265
Asn His Ile His Ile Ile Val Ala Asn Leu Tyr Leu Leu Pro Pro
                           280
                                              285
Thr Met Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Gln Glu
                       295
                                          300
Gly Val Ile Lys Phe Leu Leu Gly Asp Lys Val Ser Phe Thr Tyr Asp
                   310
                                       315
Lys
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```
<210> 1321
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<sup>&</sup>lt;211> 134

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Unknown (H38g238 protein)

<sup>&</sup>lt;220>

<sup>&</sup>lt;223> Synthetic construct

<sup>&</sup>lt;221> VARIANT

<sup>&</sup>lt;222> (1)...(134)

<sup>&</sup>lt;223> Xaa = Any Amino Acid

<sup>&</sup>lt;400> 1321

Cys Phe Cys Gly Phe Ala Val Leu Thr Ser Cys Leu Phe Cys Leu Thr 1 5 10 15

```
Pro Glu Arg Xaa His Asn Thr Leu Arg Met Ala Leu Gly Ser His Arg
                                25
Phe Pro Ser Xaa Pro Ile Lys Lys Asn Tyr Lys Trp Pro His Tyr Gln
                            40
Pro Glu Leu Leu Pro His Trp Ser Ser Lys Thr Glu Arg Ile Cys Ser
                       55
Pro Ala Pro Ser Gly Leu Glu Met Leu Arg Asn Ala Lys Pro Leu Gly
                    70
Phe Gln Leu Tyr Leu Ile Xaa Asn Glu Gln Ser Arg Leu Ala Pro Gln
                                    90
Gly Val Pro Gln Lys Thr Xaa Ser Leu Cys Ser Ser Ala Leu Ser Ser
                               105
           100
Tyr Cys Leu Lys Asp Thr Gly Gly Gly Gly Lys Xaa Ser Gly Glu Arg
                           120
       115
Ser Ser Phe Pro Arg Glu
   130
<210> 1322
<211> 318
<212> PRT
<213> Unknown (H38g239 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(318)
<223> Xaa = Any Amino Acid
<400> 1322
Met Lys Pro Thr Ile Gln Met Ala Ser Gly Asn Leu Thr Trp Val Thr
                                    10
Glu Phe Ile Leu Val Gly Val Ser Asp Asp Pro Glu Leu Gln Ile Pro
                                25
            20
Leu Phe Leu Val Phe Leu Val Leu Tyr Leu Leu Thr Val Ala Gly Asn
                            40
       35
Leu Gly Ile Ile Thr Leu Thr Ser Val Asp Pro Gln Leu Gln Thr Pro
                        55
Met Tyr Phe Phe Leu Xaa His Leu Ala Ile Ile Asn Leu Cys Asn Ser
                                        75
                   70
Thr Val Val Ala Pro Lys Met Leu Val Asn Phe Leu Val Thr Lys Lys
                                    90
               85
Thr Ile Ser Tyr Tyr Gly Cys Ala Ala Gln Leu Gly Gly Phe Leu Val
                               105
Phe Ile Val Ala Glu Ile Phe Thr Leu Ala Ala Met Ala Tyr Asp Arg
                                                125
                           120
        115
Tyr Val Ala Ile Trp Ser Pro Leu Leu Tyr Ala Val Val Ser Pro
                       135
                                            140
Lys Val Cys Arg Leu Leu Val Ser Leu Thr Tyr Leu Gln Ser Leu Ile
                    150
                                        155
Thr Ala Leu Thr Val Ser Ser Cys Val Phe Ser Val Ser Tyr Cys Ser
                                    170
                165
Ser Asn Ile Ile Asn His Phe Tyr Cys Asp Asp Val Pro Leu Leu Ala
                                185
            180
Leu Ser Cys Ser Asp Thr Tyr Ile Pro Glu Thr Ala Val Phe Ile Phe
                            200
                                                205
        195
Ser Gly Thr Asn Leu Leu Phe Ser Met Ile Val Val Leu Ile Ser Tyr
                                            220
                       215
Phe Asn Ile Val Ile Thr Ile Leu Arg Ile Arg Ser Ser Glu Gly Arg
                                        235
                    230
Gln Lys Ala Phe Ser Thr Cys Ala Ser His Met Ile Ala Val Val Val
```

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245
                                    250
Phe Tyr Gly Thr Leu Leu Phe Met Tyr Leu Gln Pro Arg Ser Asn His
                               265
Ser Leu Asp Thr Asp Lys Met Ala Ser Val Phe Tyr Thr Leu Val Ile
                           280
                                               285
Pro Val Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asn Val Lys
                       295
                                           300
Asp Ala Leu Lys Arg Phe Leu Asp Asn Pro Cys Arg Ser Leu
                   310
<210> 1323
<211> 315
<212> PRT
<213> Unknown (H38g240 protein)
<220>
<223> Synthetic construct
<400> 1323
Met Leu Ser Pro Asn His Thr Ile Val Thr Glu Phe Ile Leu Leu Gly
                5
                                    10
Leu Thr Asp Asp Pro Val Leu Glu Lys Ile Leu Phe Gly Val Phe Leu
          20
                                25
Ala Ile Tyr Leu Ile Thr Leu Ala Gly Asn Leu Cys Met Ile Leu Leu
                           40
Ile Arg Thr Asn Ser Gln Leu Gln Thr Pro Met Tyr Phe Phe Leu Gly
His Leu Ser Phe Val Asp Ile Cys Tyr Ser Ser Asn Val Thr Pro Asn
                    70
                                        75
Met Leu His Asn Phe Leu Ser Glu Gln Lys Thr Ile Ser Tyr Ala Gly
                85
                                    90
Cys Phe Thr Gln Cys Leu Leu Phe Ile Ala Leu Val Ile Thr Glu Phe
           100
                               105
Tyr Phe Leu Ala Ser Met Ala Leu Asp Arg Tyr Val Ala Ile Cys Ser
                           120
                                                125
Pro Leu His Tyr Ser Ser Arg Met Ser Lys Asn Ile Cys Ile Ser Leu
                        135
                                            140
Val Thr Val Pro Tyr Met Tyr Gly Phe Leu Asn Gly Leu Ser Gln Thr
                   150
                                       155
Leu Leu Thr Phe His Leu Ser Phe Cys Gly Ser Leu Glu Ile Asn His
               165
                                   170
Phe Tyr Cys Ala Asp Pro Pro Leu Ile Met Leu Ala Cys Ser Asp Thr
           180
                               185
                                                   190
Arg Val Lys Lys Met Ala Met Phe Val Val Ala Gly Phe Thr Leu Ser
                           200
                                               205
Ser Ser Leu Phe Ile Ile Leu Leu Ser Tyr Leu Phe Ile Phe Ala Ala
                       215
                                            220
Ile Phe Arg Ile Arg Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr
                    230
                                        235
Cys Ala Ser His Leu Thr Ile Val Thr Leu Phe Tyr Gly Thr Leu Phe
                245
                                   250
Cys Met Tyr Val Arg Pro Pro Ser Glu Lys Ser Val Glu Glu Ser Lys
           260
                               265
Ile Ile Ala Val Phe Tyr Thr Phe Leu Ser Pro Met Leu Asn Pro Leu
       275
                           280
                                               285
Ile Tyr Ser Leu Arg Asn Arg Asp Val Ile Leu Ala Ile Gln Gln Met
                       295
                                           300
Ile Arg Gly Lys Ser Phe Cys Lys Ile Ala Val
                   310
```

<210> 1324

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<211> 313
 <212> PRT
 <213> Unknown (H38g241 protein)
 <223> Synthetic construct
 <400> 1324
 Met Pro Ile Ala Asn Asp Thr Gln Phe His Thr Ser Ser Phe Leu Leu
                                    10
Leu Gly Ile Pro Gly Leu Glu Asp Val His Ile Trp Ile Gly Phe Pro
                                 25
 Phe Phe Ser Val Tyr Leu Ile Ala Leu Leu Gly Asn Ala Ala Ile Phe
                            40
 Phe Val Ile Gln Thr Glu Gln Ser Leu His Glu Pro Met Tyr Tyr Cys
                        55
Leu Ala Met Leu Asp Ser Ile Asp Leu Ser Leu Ser Thr Ala Thr Ile '
65
                    70
                                        75
Pro Lys Met Leu Gly Ile Phe Trp Phe Asn Ile Lys Glu Ile Ser Phe
                85
                                    90
Gly Gly Tyr Leu Ser Gln Met Phe Phe Ile His Phe Phe Thr Val Met
            100
                                105
Glu Ser Ile Val Leu Val Ala Met Ala Phe Asp Arg Tyr Ile Ala Ile
                            120
                                                125
Cys Lys Pro Leu Trp Tyr Thr Met Ile Leu Thr Ser Lys Ile Ile Ser
                        135
Leu Ile Ala Gly Ile Ala Val Leu Arg Ser Leu Tyr Met Val Ile Pro
                    150
                                        155
Leu Val Phe Leu Leu Leu Arg Leu Pro Phe Cys Gly His Arg Ile Ile
                                    170
Pro His Thr Tyr Cys Glu His Met Gly Ile Ala Arg Leu Ala Cys Ala
            180
                                185
Ser Ile Lys Val Asn Ile Met Phe Gly Leu Gly Ser Ile Ser Leu Leu
                            200
                                                205
Leu Leu Asp Val Leu Leu Ile Ile Leu Ser His Ile Arg Ile Leu Tyr
                        215
                                            220
Ala Val Phe Cys Leu Pro Ser Trp Glu Ala Arg Leu Lys Ala Leu Asn
                    230
                                        235
Thr Cys Gly Ser His Ile Gly Val Ile Leu Ala Phe Ser Thr Pro Ala
                245
                                    250
Phe Phe Ser Phe Phe Thr His Cys Phe Gly His Asp Ile Pro Gln Tyr
            260
                                265
                                                    270
Ile His Ile Phe Leu Ala Asn Leu Tyr Val Val Pro Pro Thr Leu
                            280
                                                285
Asn Pro Val Ile Tyr Gly Val Arg Thr Lys His Ile Arg Glu Thr Val
                       295
Leu Arg Ile Phe Phe Lys Thr Asp His
                   310
<210> 1325
<211> 328
<212> PRT
<213> Unknown (H38g242 protein)
<220>
<223> Synthetic construct
<400> 1325
Met His Ile Phe Lys Phe Val Leu Asp Phe Asn Met Lys Asn Val Thr
                                    10
Glu Val Thr Leu Phe Val Leu Lys Gly Phe Thr Asp Asn Leu Glu Leu
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Gln Thr Ile Phe Phe Phe Leu Phe Leu Ala Ile Tyr Leu Phe Thr Leu
                            40
Met Gly Asn Leu Gly Leu Ile Leu Val Val Ile Arg Asp Ser Gln Leu
                        55
His Lys Pro Met Tyr Tyr Phe Leu Ser Met Leu Ser Ser Val Asp Ala
                    70
                                        75
Cys Tyr Ser Ser Val Ile Thr Pro Asn Met Leu Val Asp Phe Thr Thr
                85
                                    90
Lys Asn Lys Val Ile Ser Phe Leu Gly Cys Val Ala Gln Val Phe Leu
                                105
Ala Cys Ser Phe Gly Thr Thr Glu Cys Phe Leu Leu Ala Ala Met Ala
                            120
Tyr Asp Arg Tyr Val Ala Ile Tyr Asn Pro Leu Leu Tyr Ser Val Ser
                        135
                                            140
Met Ser Pro Arg Val Tyr Met Pro Leu Ile Asn Ala Ser Tyr Val Ala
                    150
                                        155
Gly Ile Leu His Ala Thr Ile His Thr Val Ala Thr Phe Ser Leu Ser
               165
                                    170
Phe Cys Gly Ala Asn Glu Ile Arg Arg Val Phe Cys Asp Ile Pro Pro
            180
                               185
Leu Leu Ala Ile Ser Tyr Ser Asp Thr His Thr Asn Gln Leu Leu Leu
        195
                            200
                                                205
Phe Tyr Phe Val Gly Ser Ile Glu Leu Val Thr Ile Leu Ile Val Leu
                        215
                                            220
Ile Ser Tyr Gly Leu Ile Leu Leu Ala Ile Leu Lys Met Tyr Ser Ala
                    230
                                        235
Glu Gly Arg Arg Lys Val Phe Ser Thr Cys Gly Ala His Leu Thr Gly
                                    250
Val Ser Ile Tyr Tyr Gly Thr Ile Leu Phe Met Tyr Val Arg Pro Ser
            260
                                265
                                                    270
Ser Ser Tyr Ala Ser Asp His Asp Met Ile Val Ser Ile Phe Tyr Thr
        275
                            280
                                                285
Ile Val Ile Pro Leu Leu Asn Pro Val Ile Tyr Ser Leu Arg Asn Lys
                        295
                                            300
Asp Val Lys Asp Ser Met Lys Lys Met Phe Gly Lys Asn Gln Val Ile
                    310
                                        315
Asn Lys Val Tyr Phe His Thr Lys
<210> 1326
<211> 329
<212> PRT
<213> Unknown (H38g243 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1) ... (329)
<223> Xaa = Any Amino Acid
<400> 1326
Met Asn Gly Ala Asn Ser Ser Ser Leu Thr Pro Arg Tyr Phe Ile Leu
                                    10
Ser Gly Val Pro Gly Leu Glu Ala Ala His Ile Trp Ile Ser Leu Pro
Phe Cys Phe Met Tyr Ile Ile Val Val Leu Gly Asn Cys Gly Leu Ile
                            40
Tyr Leu Ile Ser His Glu Glu Ala Leu His Gln Pro Thr Tyr Tyr Phe
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Leu Asp Leu Leu Ser Leu Thr Asp Val Thr Gly Cys Thr Ser Phe Val
                    70
                                       75
Pro Asn Met Leu Cys Ile Phe Trp Phe Gly Leu Lys Glu Ile Asp Phe
                                   90
               85
Asn Ala Cys Leu Val Gln Met Phe Phe Ile His Met Leu Thr Gly Met
           100
                               105
Glu Ser Gly Ala Leu Met Leu Met Ala Leu Asp Arg Tyr Val Ala Ile
                          120
Cys Tyr Pro Leu His Tyr Ser Thr Ile Phe Thr Asn Thr Val Ile Thr
                       135
                                           140
Lys Val Gly Leu Val Thr Phe Ile Gln Ser Val Leu Leu Met Ile Pro
                   150
                                       155
Phe Ala Phe Leu Ile Lys Cys Leu Pro Tyr Cys Arg Gly Asn Leu Ile
               165
                                   170
His His Thr Tyr Cys Xaa His Met Ser Val Ala Lys Leu Ser Cys Gly
            180
                               185
Asn Val Gln Ile Asn Ala Ile Tyr Gly Leu Ile Ala Ala Ile Leu Ile
                           200
                                                205
Gly Gly Phe Asp Met Phe Cys Ile Ser Met Ser Tyr Thr Met Ile Ile
                       215
                                           220
Arg Ala Val Val Asn Leu Ser Ser Ala Asp Ala Arg His Lys Ala Phe
                   230
                                        235
Ser Thr Cys Thr Ala His Ile Cys Ala Ile Phe Ile Thr Tyr Val Pro
                245
                                   250
Ala Phe Phe Asn Phe Phe Thr His Arg Phe Gly Gly His Thr Ile Pro
                               265
His His Val His Ile Phe Ile Ala Asn Leu Tyr Leu Met Leu Pro Pro
                           280
Thr Leu Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu
                       295
                                          300
Gly Val Ile Lys Leu Phe Phe Arg Glu Lys Val Tyr Phe Lys Tyr Asp
                  310
                                       315
Ile Asn Leu Xaa Tyr Arg Ser Leu Asn
               325
```

<210> 1327

<211> 301

<212> PRT

<213> Unknown (H38g244 protein)

<220> .

<223> Synthetic construct

<221> VARIANT

<222> (1)...(301)

<223> Xaa = Any Amino Acid

<400> 1327

Met Ala Ser Thr Asn Asn Val Thr Glu Ser Met Ile Thr Ser Leu Phe 5 Gln Asp Pro Ala Val Gln Arg Val Cys Phe Val Val Phe Leu Pro Val 20 25 Tyr Leu Ala Met Glu Val Gly Asn Gly Leu Ile Val Leu Thr Val Ser 40 45 Ile Ser Lys Ser Leu His Ser Pro Val Tyr Phe Phe Leu Ser Tyr Leu 55 Ser Leu Met Glu Ile Ser Tyr Phe Thr Val Val Pro Lys Phe Ile Thr 75 Asp Leu Leu Ala Lys Ile Lys Ala Ile Ser Leu Glu Gly Tyr Leu Ala 85 90 Gln Ile Phe Leu His Phe Phe Gly Ile Pro Trp Ile Phe Leu Leu Pro

639

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105
Leu Met Thr Asn Asp Gln Tyr Met Ala Asn Cys Lys Leu Tyr Tyr
                           120
Thr Thr Ile Met Ser Cys Arg Val Cys His Leu Leu Val Ala Gly Phe
                       135
                                            140
Trp Leu Arg Gly Ile Ile His Ser Met Val Gln Ile Leu Val Ser Val
                   150
                                       155
Gln Leu Phe Phe Cys Gly Pro Asn Met Ile Asp His Ser Phe Cys Asp
                                   170
Leu Gln Val Leu Phe Lys Leu Ala Cys Thr Asp Thr Phe Val Glu Gly
                               185
Val Ile Val Leu Ala Asn Ser Glu Leu Val Ser Val Phe Phe Leu Ile
                            200
Leu Val Ser Ser Tyr Ile Ile Ile Leu Val Asn Leu Arg Asn His Ser
                       215
                                           220
Ala Glu Gly Arg Cys Lys Ala Leu Ser Thr Cys Ala Ser Tyr Leu Val
                    230
                                       235
Phe Xaa Thr Cys Ile Phe Leu Tyr Val Xaa Leu Ser Ser Thr Phe Thr
               245
                                   250
Lys Asp Lys Leu Val Ala Val Phe Tyr Val Val Ile Thr Pro Met Leu
           260
                               265
                                                270
Asn Pro Phe Ile Tyr Thr Leu Gly Asn Ala Glu Met Lys Ile Thr Met
                           280
Arg Arg Leu Leu Gly Arg Thr Val Asn Ser Gly Met Glu
                        295
<210> 1328
<211> 324
<212> PRT
<213> Unknown (H38g245 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(324)
<223> Xaa = Any Amino Acid
<400> 1328
Gly Ser Xaa Lys Gln Xaa Lys Ser Xaa Pro Pro Ile Phe Phe Leu Thr
                                   10
Gly Ile Pro Gly Leu Glu Ala Gln His Gly Trp Leu Ser Ile Pro Phe
                                25
Phe Thr Met Tyr Ile Val Ala Ile Val Gly Asn Ile Leu Ile Met Ala
                           40
Ala Val Gln Glu Asp Ser Ala Leu His Glu Pro Met Tyr Leu Phe Leu
Ser Met Leu Ala Val Thr Glu Val Gly Val Ser Val Ser Thr Leu Pro
                   70
Thr Val Thr Gly Ile Leu Trp Phe Asp Ala His Arg Val Asp Phe Asp
               85
                                   90
Gly Cys Leu Ala Gln Met Phe Phe Ile His Thr Phe Ser Cys Met Glu
           100
                               105
Ser Gly Val Leu Leu Ala Met Ser Tyr Asp Arg Phe Val Ala Ile Tyr
                           120
                                               125
Asn Leu Leu Arg Tyr Thr Ala Ile Leu Thr Leu Pro Arg Ile Ile Cys
                       135
                                           140
Met Gly Leu Gly Ile Thr Leu Lys Ser Val Ala Leu Met Ala Pro Leu
                  150
                                      155
Pro Ile Leu Leu Arg Gln Leu Pro Tyr Cys His Thr Asn Val Leu Ser
                                   170
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WO 01/27158
His Ser Tyr Cys Leu His Ser Asp Leu Ile Gln Leu Pro Cys Ala Asp
                                185
           180
Thr Lys Leu Asn Ser Ile Leu Gly Leu Ala Ile Val Leu Ala Asn Phe
                           200
Gly Leu Asp Ser Leu Leu Ile Val Val Ser Tyr Val Leu Ile Leu Tyr
                                           220
                       215
Thr Val Met Gly Ile Ala Ser Gly Glu Gly Arg Trp Lys Ala Leu Asn
                                       235
                   230
Thr Cys Val Ser His Ile Cys Ala Val Leu Ile Tyr Tyr Val Pro Met
                                   250
               245
Ile Gly Val Ser Val Met His Arg Ala Ala Lys His Ala Ser Pro Ile
                                265
Val His Thr Leu Met Ser Ser Ile Cys Leu Leu Val Pro Pro Val Leu
                           280
Asn Pro Ile Ile Tyr Ser Val Lys Thr Gln Thr Ile Arg Gln Gly Ile
                       295
Leu Thr Leu Phe Ser Cys Lys Arg Glu Leu Leu Xaa Ile Thr Ala Arg
                                        315
                    310
Ser Gln Glu Leu
<210> 1329
<211> 292
<212> PRT
<213> Unknown (H38g246 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(292)
<223> Xaa = Any Amino Acid
<400> 1329
Thr Leu Phe Ile Ile Ser Lys Phe Gln Gly Cys Xaa Lys Val Gly Leu
                                    10
                5
Tyr Thr Gln Ser Leu Tyr Leu Leu Ala Glu Tyr Phe His Arg Gly Gln
                                                   3.0
                                25
Leu Met Lys Met Leu Thr Ser Thr Asn Leu Ser Leu Ser Val Val Thr
                                                45
       35
                           40
Ile Gly Ile Phe Gln Phe Asn Val Arg Glu Ile Val Phe Gly Ala Phe
                       55
Leu Val Tyr Ile Gln Met Phe Met Thr Tyr Leu Cys Thr Gly Leu Glu
```

75 Ser Gly Val Leu Ile Ile Leu Ala Ile Asp His Tyr Val Val Ile Arg 85 90 Asn Pro Leu Arg Tyr Thr Met Ile Leu Met Asn Asn Val Val Ala Ile 105 100 Leu Gly Val Met Ile Ile Arg Ser Leu Ile Phe Ile Ile Pro Phe Glu 120 125 Phe Leu Ile Leu Leu Ser Phe Cys Ala Ala His Ile Ile Pro His 140 135 Thr Lys Cys Glu His Met Gly Ile Ala His Leu Ser Cys Ala Ser Val 150 155 Arg Ala Asn Asn Met Phe Gly Met Val Ala Phe Ser Val Gly Phe Ile 165 170 Asp Leu Ile Ala Ile Gly Phe Ser Tyr Val Lys Lys Leu Arg Ala Leu 185 190 180 Phe His Leu Pro Pro Trp Asn Gly Gln Phe Glu Ala Leu Asn Thr Cys 200 205 Gly Ser His Val Cys Met Leu Ile Phe Tyr Ile Pro Val Phe Phe

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215
                                            220
Xaa Tyr Thr Ala Trp Xaa Lys His Pro Cys Tyr Ile Arg Ile Phe Leu
                   230
                                       235
Ala Asn Val Tyr Thr Val Val Leu Pro Val Phe Asn Pro Val Ile Tyr
                                   250
               245
Gly Ile Arg Lys Lys Gln Ile Pro Asp Xaa Gly Ile Asp Leu Lys Thr
                               265
Phe Asp Asp Gln Ser Leu Leu Val Met Met Ile Tyr Ile Leu Gly Tyr
       275
                           280
Ile Cys Lys Tyr
    290
<210> 1330
<211> 312
<212> PRT
<213> Unknown (H38g247 protein)
<220>
<223> Synthetic construct
<400> 1330
Met Asp Glu Ala Asn His Ser Val Val Ser Glu Phe Val Phe Leu Gly
Leu Ser Asp Ser Arg Lys Ile Gln Leu Leu Leu Phe Leu Phe Phe Ser
            20
                                25
Val Phe Tyr Val Ser Ser Leu Met Gly Asn Leu Leu Ile Val Leu Thr
        35
                           40
Val Thr Ser Asp Pro Arg Leu Gln Ser Pro Met Tyr Phe Leu Leu Ala
                        55
                                            60
Asn Leu Ser Ile Ile Asn Leu Val Phe Cys Ser Ser Thr Ala Pro Lys
                    70
                                        75
Met Ile Tyr Asp Leu Phe Arg Lys His Lys Thr Ile Ser Phe Gly Gly
                                    90
Cys Val Val Gln Ile Phe Phe Ile His Ala Val Gly Gly Thr Glu Met
                                105
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys
                           120
                                               125
Pro Leu His Tyr Leu Thr Ile Met Asn Pro Gln Arg Cys Ile Leu Phe
                       135
                                           140
Leu Val Ile Ser Trp Ile Ile Gly Ile Ile His Ser Val Ile Gln Leu
                   150
                                       155
Ala Phe Val Val Asp Leu Leu Phe Cys Gly Pro Asn Glu Leu Asp Ser
               165
                                    170
Phe Phe Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Ile Glu Thr
                                185
Tyr Thr Leu Gly Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu
                           200
                                               205
Ala Ser Phe Leu Ile Leu Ile Ile Ser Tyr Ile Phe Ile Leu Val Thr
                       215
                                            220
Val Gln Lys Lys Ser Ser Gly Gly Ile Phe Lys Ala Phe Ser Met Leu
                   230
                                       235
Ser Ala His Val Ile Val Val Val Leu Val Phe Gly Pro Leu Ile Phe
                245
                                    250
Phe Tyr Ile Phe Pro Phe Pro Thr Ser His Leu Asp Lys Phe Leu Ala
                                265
            260
Ile Phe Asp Ala Val Ile Thr Pro Val Leu Asn Pro Val Ile Tyr Thr
                           280
Phe Arg Asn Lys Glu Met Met Val Ala Met Arg Arg Cys Ser Gln
                       295
Phe Val Asn Tyr Ser Lys Ile Phe
```

310

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<210> 1331
<211> 168
<212> PRT
<213> Unknown (H38g248 protein)
<223> Synthetic construct
<400> 1331
Lys Gln Ser Ser Gly Asp Ser Gly Asn Gln Thr Thr Trp Leu Ile Leu
                                    10
Val Gly Phe Gly Glu Leu Gln Tyr Leu Gly Phe Leu Pro Phe Thr Leu
                                25
           20
Phe Leu Ala Ile Tyr Val Val Thr Val Val Gly Asn Ala Leu Ile Met
Leu Ala Val Ala Ser Ser Arg Thr Leu His Pro Pro Met Tyr Phe Phe
                        55
Leu Cys His Phe Ser Leu Leu Glu Ile Gly Tyr Thr Ser Asn Val Ile
                                        75
                    70
Leu Trp Leu Leu Gln Ser Phe Leu Glu Gly Lys Glu Val Ile Ser Leu
                                    90
                85
Val Ser Cys Leu Ala Gln Phe Tyr Val Phe Ser Ser Leu Ala Ala Ala
                                105
Glu Cys Leu Leu Ser Ala Val Ser Tyr Asp Cys Tyr Leu Ala Ile
                                                125
                            120
Cys Cys Pro Leu His Tyr Pro Ala Leu Met Ser Thr Trp Phe Cys His
                                            140
                       135
Cys Leu Ala Ala Gly Ala Trp Phe Ser Gly Phe Phe Ser Ser Ala Phe
                                        155
                   150
Thr Met Ala Leu Ala Ala Pro Leu
                165
<210> 1332
<211> 321
<212> PRT
<213> Unknown (H38g249 protein)
<220>
<223> Synthetic construct
<400> 1332
Met Leu Thr Leu Asn Lys Thr Asp Leu Ile Pro Ala Ser Phe Ile Leu
Asn'Gly Val Pro Gly Leu Glu Asp Thr Gln Leu Trp Ile Ser Phe Pro
                                25
Phe Cys Ser Met Tyr Val Val Ala Met Val Gly Asn Cys Gly Leu Leu
                            40
                                                45
Tyr Leu Ile His Tyr Glu Asp Ala Leu His Lys Pro Met Tyr Tyr Phe
                                            60
                        55
Leu Ala Met Leu Ser Phe Thr Asp Leu Val Met Cys Ser Ser Thr Ile
                                        75
                    70
Pro Lys Ala Leu Cys Ile Phe Trp Phe His Leu Lys Asp Ile Gly Phe
                                    90
Asp Glu Cys Leu Val Gln Met Phe Phe Ile His Thr Phe Thr Gly Met
                                105
Glu Ser Gly Val Leu Met Leu Met Ala Leu Asp Arg Tyr Val Ala Ile
                                                125
        115
                            120
Cys Tyr Pro Leu Arg Tyr Ser Thr Ile Leu Thr Asn Pro Val Ile Ala
                       135
Lys Val Gly Thr Ala Thr Phe Leu Arg Gly Val Leu Leu Ile Ile Pro
```

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150
                                      155
Phe Thr Phe Leu Thr Lys Arg Leu Pro Tyr Cys Arg Gly Asn Ile Leu
              165
                                  170
Pro His Thr Tyr Cys Asp His Met Ser Val Ala Lys Leu Ser Cys Gly
           180
                              185
Asn Val Lys Val Asn Ala Ile Tyr Gly Leu Met Val Ala Leu Leu Ile
                          200
Gly Gly Phe Asp Ile Leu Cys Ile Thr Ile Ser Tyr Thr Met Ile Leu
                                          220
                      215
Arg Ala Val Val Ser Leu Ser Ser Ala Asp Ala Arg Gln Lys Ala Phe
                  230
                                      235
Asn Thr Cys Thr Ala His Ile Cys Ala Ile Val Phe Ser Tyr Thr Pro
              245
                                  250
Ala Phe Phe Ser Phe Phe Ser His Arg Phe Gly Glu His Ile Ile Pro
          260
                              265
Pro Ser Cys His Ile Ile Val Ala Asn Ile Tyr Leu Leu Pro Pro
      275
                          280
                                              285
Thr Met Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Asp
                                       300
                   295
Cys Val Ile Arg Ile Leu Ser Gly Ser Lys Asp Thr Lys Ser Tyr Ser
                                      315
305
                  310
Met
```

<210> 1333

<211> 315

<212> PRT

<213> Unknown (H38g250 protein)

<220>

<223> Synthetic construct

<400> 1333

Met Thr Thr His Arg Asn Asp Thr Leu Ser Thr Glu Ala Ser Asp Phe Leu Leu Asn Cys Phe Val Arg Ser Pro Ser Trp Gln His Trp Leu Ser 25 Leu Pro Leu Ser Leu Leu Phe Leu Leu Ala Val Gly Ala Asn Thr Thr 40 45 Leu Leu Met Thr Ile Trp Leu Glu Ala Ser Leu His Gln Pro Leu Tyr 55 60 Tyr Leu Leu Ser Leu Leu Ser Leu Leu Asp Ile Val Leu Cys Leu Thr 75 70 Val Ile Pro Lys Val Leu Thr Ile Phe Trp Phe Asp Leu Arg Pro Ile 85 90 Ser Phe Pro Ala Cys Phe Leu Gln Met Tyr Ile Met Asn Cys Phe Leu 105 Ala Met Glu Ser Cys Thr Phe Met Val Met Ala Tyr Asp Arg Tyr Val 120 125 Ala Ile Cys His Pro Leu Arg Tyr Pro Ser Ile Ile Thr Asp His Phe 135 140 Val Val Lys Ala Ala Met Phe Ile Leu Thr Arg Asn Val Leu Met Thr 150 155 Leu Pro Ile Pro Ile Leu Ser Ala Gln Leu Arg Tyr Cys Gly Arg Asn 170 165 Val Ile Glu Asn Cys Ile Cys Ala Asn Met Ser Val Ser Arg Leu Ser 180 185 Cys Asp Asp Val Thr Ile Asn His Leu Tyr Gln Phe Ala Gly Gly Trp 200 205 Thr Leu Leu Gly Ser Asp Leu Ile Leu Ile Phe Leu Ser Tyr Thr Phe

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Ile Leu Arg Ala Val Leu Arg Leu Lys Ala Glu Gly Ala Val Ala Lys
                   230 235
Ala Leu Ser Thr Cys Gly Ser His Phe Met Leu Ile Leu Phe Phe Ser
                                    250
                245
Thr Ile Leu Leu Val Phe Val Leu Thr His Val Ala Lys Lys Lys Val
                               265
Ser Pro Asp Val Pro Val Leu Leu Asn Val Leu His His Val Ile Pro
                            280
        275
Ala Ala Leu Asn Pro Ile Ile Tyr Gly Val Arg Thr Gln Glu Ile Lys
                        295
Gln Gly Met Gln Arg Leu Leu Lys Lys Gly Cys
                    310
<210> 1334
<211> 302
<212> PRT
<213> Unknown (H38g251 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(302)
<223> Xaa = Any Amino Acid
<400> 1334
Leu Ser Ser Met Cys Leu Thr Ile Val Met His Cys Glu Phe Phe Leu
                                    10
Met Asp Leu Thr Asp Asp Pro Gln Leu His Pro Thr Phe Ser Ala Leu
Phe Leu Pro Ile Tyr Val Val Met Val Met Ala Asn Leu Gly Leu Leu
                            40
Ala Phe Ile Val Val Ser Pro Gln Phe Leu Thr Pro Met Tyr Phe Phe
                       55
                                           60
Leu Ser Asn Trp Ser Ser Val Asp Phe Cys Tyr Ser Ser Val Thr Val
                   70
                                       75
Pro Lys Ile Ser Met Gly Phe Phe Ser Asp Cys Gln Val Phe Ser Phe
               85
                                   90
Ser Gly Cys Met Ala Gln Leu Ser Cys Phe Xaa Ile Phe Ala Asp Thr
           100
                               105
Glu Phe Phe Leu Leu Ala Ser Met Val Tyr Tyr Arg Xaa Glu Ala Val
                           120
                                               125
Cys Asn Pro Leu Leu Tyr His Ile Thr Met Ser Pro Lys Leu Cys Leu
                       135
                                           140
Gln Leu Val Ala Thr Ser Met Asn Met Val Leu Pro Ser Ser Thr Ile
                    150
                                       155
Phe His Leu Ile Phe Cys Lys Ser Arg Ala Ile Ile His Xaa Phe Cys
               165
                                   170
Tyr Phe Ser Pro Pro Pro Arg Leu Xaa Lys Leu Ser Cys Ser Asp Met
           180
                               185
Gln Gly Leu Gln Leu Leu Thr Phe Ala Ser Ser Ser Phe Asn Val Ser
                           200
Val Ser Arg Thr Ile Phe Leu Val Ser Tyr Leu Ile Met Arg Met Pro
                       215
                                           220
Ser Val Xaa Gly Lys His Cys Ala Ser His Leu Thr Ala Val Ser Leu
                   230
                                       235
Cys Tyr Gly Thr Thr Val Phe Leu His Leu His Leu Ser Leu Lys Cys
              245
                                  250
Ser Pro Asp Arg Asp Met Leu Val Ser Val Leu His Ser Ala Ile Leu
           260
                               265
                                                   270
Met Leu Asn Pro Met Val Gln Ser Leu Arg Asn Lys Asp Val Lys Lys
```

275

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280
Thr Phe Gly Thr Ser Ser Xaa Arg Phe Thr Ile Pro Leu Leu
                        295
<210> 1335
<211> 324
<212> PRT
<213> Unknown (H38g252 protein)
<220>
<223> Synthetic construct
<400> 1335
Met Pro Leu Phe Asn Ser Leu Cys Trp Phe Pro Thr Ile His Val Thr
                5
                                    10
Pro Pro Ser Phe Ile Leu Asn Gly Ile Pro Gly Leu Glu Arg Val His
            20
                                25
Val Trp Ile Ser Leu Pro Leu Cys Thr Met Tyr Ile Ile Phe Leu Val
                            40
                                                45
Gly Asn Leu Gly Leu Val Tyr Leu Ile Tyr Tyr Glu Glu Ser Leu His
                        55
His Pro Met Tyr Phe Phe Phe Gly His Ala Leu Ser Leu Ile Asp Leu
Leu Thr Cys Thr Thr Thr Leu Pro Asn Ala Leu Cys Ile Phe Trp Phe
                85
                                    90
Ser Leu Lys Glu Ile Asn Phe Asn Ala Cys Leu Ala Gln Met Phe Phe
            100
                                105
Val His Gly Phe Thr Gly Val Glu Ser Gly Val Leu Met Leu Met Ala
        115
                            120
                                                125
Leu Asp Arg Tyr Val Ala Ile Cys Tyr Pro Leu Arg Tyr Ala Thr Thr
                        135
                                            140
Leu Thr Asn Pro Ile Ile Ala Lys Ala Glu Leu Ala Thr Phe Leu Arg
                    150
                                        155
Gly Val Leu Leu Met Ile Pro Phe Pro Phe Leu Val Lys Arg Leu Pro
               165
                                    170
Phe Cys Gln Ser Asn Ile Ile Ser His Thr Tyr Cys Asp His Met Ser
           180
                                185
Val Val Lys Leu Ser Cys Ala Ser Ile Lys Val Asn Val Ile Tyr Gly
        195
                            200
                                                205
Leu Met Val Ala Leu Leu Ile Gly Val Phe Asp Ile Cys Cys Ile Ser
                        215
                                            220
Leu Ser Tyr Thr Leu Ile Leu Lys Ala Ala Ile Ser Leu Ser Ser Ser
                    230
                                        235
Asp Ala Arg Gln Lys Ala Phe Ser Thr Cys Thr Ala His Ile Ser Ala
                                    250
Ile Ile Ile Thr Tyr Val Pro Ala Phe Phe Thr Phe Phe Ala His Arg ...
            260
                                265
Phe Gly Gly His Thr Ile Pro Pro Ser Leu His Ile Ile Val Ala Asn
        275
                            280
                                                285
Leu Tyr Leu Leu Pro Pro Thr Leu Asn Pro Ile Val Tyr Gly Val
                       295
                                           300
Lys Thr Lys Gln Ile Arg Lys Ser Val Ile Lys Phe Phe Gln Gly Asp
                   310
                                        315
Lys Gly Ala Gly
<210> 1336
<211> 274
<212> PRT
<213> Unknown (H38g253 protein)
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<221> VARIANT
<222> (1)...(274)
<223> Xaa = Any Amino Acid
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Glu Arg Asn Pro Ser Val Ala Glu Lys Cys Leu Gln Gly Met Thr Asp
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Ser Ser His His Tyr Leu Xaa Leu Arg Leu Pro Leu Phe Arg Leu Leu
Ile Leu Leu Tyr Thr Ile Ile Thr Ile Gly Asn Leu Gly Thr Val Ile
                                                45
                            40
Leu Ile Gly Ile Ser Leu Gly Leu Tyr Val Cys Pro Pro Arg Phe Leu
                       55
Leu Phe Thr Phe Ser Met Leu Arg Val Leu Val Lys Cys Phe Xaa Ser
                   70
Thr Val Leu Pro Phe Ser Phe Trp Ser Leu Glu Ala Gln Ile Asn Phe
                85
                                    90
Phe Ser Ile Leu Cys Ile Thr Glu Phe Phe Pro Leu Ala Thr Met Ala
                                105
Tyr Asp Asp Asn Val Ala Thr Cys Glu Pro Leu Phe His Pro Phe Thr
                                                125
                            120
Ser Leu Arg Leu Asn Ser Ala Phe Val Xaa Glu Lys Leu Tyr Leu Arg
                        135
                                            140
Ala Phe Thr Ser Ala Leu Pro Ser Thr Leu Pro Phe His Leu Pro Phe
                   150
                                        155
Phe Asn Ser His Leu Cys Ser Leu Gln Xaa His Tyr Phe Leu Gly Gln
                                                        175
                                    170
               165
Val Val Leu Xaa Asn Met Thr Pro Asn Phe Lys Leu Pro Asp Phe Ser
                                                    190
                                185
Asn Ser Asn Val Asn Leu Val Ser Leu Cys Cys Pro Thr Ile Cys Cys
                            200
                                                205
        195
Tyr Pro Ile Ile Leu Arg Ser Leu Ser Ser His Asn Xaa Ser Glu Asn
                        215
                                           220
Lys Leu Leu Ile Ile Ile Phe Phe Gln Asn Ser Thr Xaa Leu Leu Phe
                                        235
                   230
Ile Phe Cys Ser Asp Glu Asn Val Tyr Xaa Thr Ile Xaa Gly Ile Thr
               245
                                    250
Asp Xaa Phe Ile Lys Ser Lys His Cys Val His Ile Pro Leu Met Gln
                                265
           260
Ile Leu
<210> 1337
<211> 315
<212> PRT
<213> Unknown (H38g254 protein)
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<223> Synthetic construct
<221> VARIANT
<222> (1)...(315)
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Met Ser Ser Leu Asn Val Thr Glu Pro His Leu Ser Ser Phe Leu Leu
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Leu Gly Ile Pro Gly Leu Glu Ala Ala Gln Arg Trp Leu Gly Phe Pro

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30
            20
                                25
Phe Cys Val Val Tyr Leu Ile Ala Leu Val Gly Asn Leu Ile Ile Leu
                           40
Phe Val Ile Trp Thr Asp Lys Asn Leu His Gln Pro Met Phe Tyr Phe
                                           60
                       55
Leu Ala Met Leu Ser Val Ile Asp Leu Ser Leu Ser Thr Ser Thr Ile
                                       75
                   70
Pro Lys Met Leu Gly Ile Phe Trp Phe Ser Leu Gln Glu Leu Cys Phe
                                   90
              85
Gly Cys Cys Val Ala Gln Val Phe Phe Ile His Phe Phe Ser Val Met
           100
                               105
                                                   110
Glu Ser Ile Val Leu Leu Val Met Gly Phe Asp Arg Tyr Val Ala Ile
                           120
                                                125
Cys Asn Pro Phe Arg Xaa Thr Lys Ile Leu Thr Asn Arg Ile Thr Gly
                       135
Val Ile Ala Met Val Val Leu Arg Ser Leu Cys Met Ile Ala Pro
                   150
                                       155
Ile Ile Phe Leu Leu Met Arg Leu Pro Tyr Cys Gly His Arg Ile Ile
                165
                                    170
                                                        175
Pro Tyr Thr Tyr Cys Glu His Met Gly Val Ala Arg Leu Ala Cys Ala
                                185
            180
Ser Ile Ser Val Asn Val Ser His Gly Leu Gly Asn Ile Phe Ile Leu
                           200
                                                205
Phe Leu Asp Met Phe Leu Ile Ile Ile Ser Tyr Ala Arg Ile Leu Cys
                                           220
                        215
Thr Val Phe His Leu Pro Ser Gln Glu Ala His Leu Lys Ala Leu Asn
                   230
                                       235
Thr Cys Ser Ser His Ile Cys Val Ile Leu Ala Phe Phe Gly Pro Ala
                245
                                    250
Leu Phe Ser Phe Leu Thr His Arg Phe Gly His Gly Ile Pro Gln Tyr
                                265
Ile His Ile Leu Leu Ala Asn Leu Tyr Ile Val Val Ile Pro Pro Ala
                           280
                                               285
Leu Asn Pro Val Ile Tyr Gly Val Arg Thr Lys Gln Ile Gln Glu Arg
                       295
Val Glu Ser Leu Phe Thr Lys Asn Xaa Leu Asn
                   310
<210> 1338
<211> 323
<212> PRT
<213> Unknown (H38g255 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(323)
<223> Xaa = Any Amino Acid
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Val Glu Asn Ser Pro Met Val Thr Asp Phe Ile Phe Leu Gly Met Thr
Asp Asn Ser Gln Leu Glu Val Leu Leu Phe Gly Val Phe Leu Ile Ala
                               25
Tyr Ile Ile Thr Val Leu Glu Asn Leu Gly Leu Val Val Leu Ile Arg
                            40
Val Ser Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Gln
                                           60
                       55
Ser Phe Leu Asp Val Cys Phe Ser Ser Ile Thr Ile Pro Gln Asn Leu
                                       75
                   70
```

```
Ala His Leu Phe Ser Lys Leu Gln Tyr Val Ser Phe Leu Phe Pro Tyr
                85
                                   90
Thr Xaa Met Ser Leu Phe Val Ile Phe Ala Ser Ala Glu Cys Asn Phe
                               105
           100
Leu Asn Leu Met Ala Tyr Asp Arg Phe Thr Ala Ile Cys His Pro Leu
                                               125
                           120
       115
Phe Tyr His Ile Thr Met Ser Arg Gly His Tyr Leu Phe Leu Val Ala
                                            140
                       135
Gly Cys Tyr Leu Gly Gly Leu Val Lys Met Val Thr Val Thr Thr Ser
                    150
                                        155
Ile Thr Gln Leu Ser Leu Cys Gln Pro Cys Val Leu Pro Ala Phe Phe
                                   170
                165
Cys Asp Ile Pro Ser Leu Leu Val Leu Val Cys Ser Asp Pro Trp Ile
                               185
           180
Thr Ser Ser Ile Leu Val Val Gly Cys Gly Gly Phe Thr Leu Val Thr
                                              205
                           200
Ser Val Val Val Ile Leu Val Ser Tyr Met Ser Ser Leu Met Thr Ile
                                            220
                       215
Leu Gly Ile Pro Leu Ala Ser Gly Lys Gln Arg Ala Phe Ser Thr Cys
                   230
                                        235
Ala Ser His Leu Thr Ala Val Ser Leu Tyr Tyr Glu Thr Thr Met Tyr
                245
                                    250
Thr Tyr Leu Pro Ala Ser Arg His Gly Ser Gly Ala Gly Asn Gln Ile
                                265
Val Ser Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Leu Ile
                           280
       275
Tyr Ser Leu Arg Asn Glu Glu Val Lys Val Ala Leu Xaa Lys Thr Leu
                       295
                                           300
Arg His Ser Pro Xaa Ser Ser Leu Ser Val Ser Lys Met Gln Asn Ile
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                    310
Leu Xaa Arg
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<210> 1339
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## <220>

## <400> 1339

Trp Leu Asp Glu Lys Lys Gln Asp Ser Asn Val Thr Glu Leu Val Leu Leu Gly Leu Ser Ser Ser Trp Glu Leu Gln Leu Phe Leu Leu Leu 25 Phe Leu Phe Phe Tyr Ile Ala Ile Val Leu Gly Asn Leu Leu Ile Val 45 40 Val Thr Val Gln Ala His Ala His Leu Leu Gln Ser Pro Met Tyr Tyr 55 Phe Leu Gly His Leu Ser Phe Ile Asp Leu Cys Leu Ser Cys Val Thr 75 70 Leu Pro Lys Met Leu Gly Asp Phe Leu Gln Gln Gly Lys Ser Ile Ser 85 90 Phe Ser Gly Cys Leu Ala Gln Ile Tyr Phe Leu His Phe Leu Gly Ala 105 100 Ser Glu Met Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala 125 120 Ile Cys Asn Pro Leu Arg Tyr Leu Ile Ile Met Asn Pro Gln Leu Cys 135 140

Leu Trp Leu Val Leu Ala Cys Trp Cys Gly Gly Phe Ile His Ser Ile

<sup>&</sup>lt;211> 311

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Unknown (H38g256 protein)

<sup>&</sup>lt;223> Synthetic construct

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Met Gln Val Ile Leu Val Ile Gln Leu Pro Phe Cys Gly Pro Asn Glu
                                    170
               165
Leu Asp Asn Phe Tyr Cys Asp Val Pro Gln Val Ile Lys Leu Ala Cys
                                185
Met Asp Thr Tyr Val Val Glu Val Leu Met Ile Ala Asn Ser Gly Leu
                            200
Leu Ser Leu Val Cys Phe Leu Val Leu Leu Phe Ser Tyr Ala Val Ile
                                            220
                       215
Leu Ile Thr Leu Arg Thr His Phe Gly Gln Gly Gln Asn Lys Phe Leu.
                   230
                                        235
Ser Thr Cys Ala Ser His Leu Thr Val Val Ser Leu Ile Phe Met Pro
               245
                                    250
Cys Ile Phe Ile Tyr Leu Arg Pro Phe Cys Ser Phe Ser Val Asp Lys
                                265
Ile Phe Ser Met Phe Tyr Thr Val Met Thr Pro Met Leu Ser Pro Leu
                                                285
       275
                           280
Ile Tyr Thr Leu Arg Asn Ala Asp Met Lys Thr Ala Met Lys Lys Leu
                      295
Arg Ile Lys Pro Cys Asp Ile
<210> 1340
<211> 318
<212> PRT
<213> Unknown (H38g257 protein)
<220>
<223> Synthetic construct
<400> 1340
Met Met Val Asp Pro Asn Gly Asn Glu Ser Ser Ala Thr Tyr Phe Ile
Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe Trp Leu Ala Phe
                                25
Pro Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu Thr Ile
                            40
Ile Tyr Ile Val Arg Thr Glu His Ser Leu His Glu Pro Met Tyr Ile
                        55
                                            60
Phe Leu Cys Met Leu Ser Gly Ile Asp Ile Leu Ile Ser Thr Ser Ser
                   70
                                        75
Met Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln
                                    90
                85
Phe Asp Ala Cys Leu Leu Gln Met Phe Ala Ile His Ser Leu Ser Gly
           100
                                105
Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
                                                125
                            120
Ile Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro Arg Val
                        135
                                            140
Thr Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu Met Ala
                    150
                                        155
Pro Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile
                165
                                    170
Leu Ser His Ser Tyr Cys Leu His Glń Asp Val Met Lys Leu Ala Cys
           180
                                185
Asp Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile Ile Ser
                            200
Ala Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu Leu Ile
                       215
                                           220
Leu Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys Ala Phe
                                        235
```

Gly Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr Val Pro 245 Phe Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg Asp Ser 260 265 Pro Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro Pro Val 280 285 Leu Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Glu Ile Arg Gln Arg 295 300 Ile Leu Arg Leu Phe His Val Ala Thr His Ala Ser Glu Pro 310 <210> 1341 <211> 320 <212> PRT <213> Unknown (H38g258 protein) <220> <223> Synthetic construct <221> VARIANT <222> (1)...(320) <223> Xaa = Any Amino Acid <400> 1341 Met Ser Ser Arg Leu Met Asn Val Phe Ser Met Glu Thr Ile Asn Phe 5 10 Val Ser Cys Leu Ile Leu Met Gly Phe Pro Ser Ser Pro Glu Met Gln 25 20 Leu Leu Tyr Phe Gly Leu Phe Ser Val Ala Tyr Thr Leu Thr Pro Met 40 Gly Asn Ala Ala Ile Val Cys Ala Val Trp Xaa Asp Gln His Leu His 55 Thr Pro Met Tyr Thr Leu Leu Gly Asn Phe Ser Leu Leu Glu Ile Trp 70 75 Tyr Val Thr Ala Thr Lys Leu Leu Ala Asn Phe Leu Ser Thr Ser Lys 85 90 Ser Ile Ser Phe Met Ser Cys Phe Ala Gln Phe Tyr Phe Phe Ser Leu 105 Gly Tyr Asp Glu Gly Phe Phe Leu Cys Ile Thr Ala Phe Asp Arg Tyr 115 120 Leu Ala Ile Cys Arg Pro Leu Arg Tyr Pro Cys Ile Met Thr Lys Gln 135 140 Val Cys Thr Gly Leu Ile Ile Phe Ala Trp Ser Cys Val Phe Val Ile 150 155 Phe Leu Thr Leu Val Ile Leu Ile Ser Gln Leu Ser Tyr Cys Gly Pro 165 170 Asn Ile Ile Asn His Phe Ile Cys Asp Pro Val Pro Leu Lys Met Leu 180 185 190 Ser Cys Ser Glu Asp Ile Ile Ile Thr Gln Leu Ile Tyr Ser Thr Phe 200 205 Asn Ser Val Phe Ile Ile Gly Thr Phe Leu Phe Ile Leu Cys Ser Tyr 215 220 Ala Leu Val Ile Leu Ala Ile Ile Arg Met Pro Ser Glu Ala Gly Lys 230 235 Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ala Val Val Thr Leu 245 250 Phe Tyr Gly Ser Ile Met Val Met Tyr Val Ser Pro Gly Ser Ala His 260 265 270 Pro Ala Lys Asn Glu Lys Ile Ile Thr Leu Phe Phe Ser Val Ile Thr 280 285 Pro Leu Cys Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Met Lys

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300
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Asp Tyr Leu Arg Lys Ile Phe Arg Thr Gly Lys Asp Val Asn Lys Ile
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                                       315
<210> 1342
<211> 309
<212> PRT
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Met Leu Asn Thr Thr Ser Val Thr Glu Phe Leu Leu Gly Val Thr
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Asp Ile Gln Glu Leu Gln Pro Phe Leu Phe Val Val Phe Leu Thr Ile
         20
                               25
Tyr Phe Ile Ser Val Ala Gly Asn Gly Ala Ile Leu Met Ile Val Ile
                           40
                                               45
Ser Asp Pro Arg Leu His Ser Pro Met Tyr Phe Phe Leu Gly Asn Leu
                       55
                                           60
Ser Cys Leu Asp Ile Cys Tyr Ser Ser Val Thr Leu Pro Lys Met Leu
                    70
                                        75
Gln Asn Phe Leu Ser Ala His Lys Ala Ile Ser Phe Leu Gly Cys Ile
                                    90
Ser Gln Leu His Phe Phe His Phe Leu Gly Ser Thr Glu Ala Met Leu
            100
                               105
Leu Ala Val Met Ala Phe Asp Arg Phe Val Ala Ile Cys Lys Pro Leu
       115
                            120
                                                125
Arg Tyr Thr Val Ile Met Asn Pro Gln Leu Cys Thr Gln Met Ala Ile
                        135
                                           140
Thr Ile Trp Met Ile Gly Phe Phe His Ala Leu Leu His Ser Leu Met
                    150
                                       155
Thr Ser Arg Leu Asn Phe Cys Gly Ser Asn Arg Ile Tyr His Phe Phe
               165
                                    170
Cys Asp Val Lys Pro Leu Leu Lys Leu Ser Leu Ile Ser Gly Trp Leu
                               185
Ser Thr Val Thr Gly Thr Ile Ala Met Gly Pro Phe Phe Leu Thr Leu
                           200
                                               205
Leu Ser Tyr Phe Tyr Ile Ile Thr His Leu Phe Phe Lys Thr His Ser
                       215
                                           220
Phe Ser Met Leu Arg Lys Ala Leu Ser Thr Cys Ala Ser His Phe Met
                   230
                                       235
Val Val Ile Leu Leu Tyr Ala Pro Val Leu Phe Thr Tyr Ile His His
               245
                                   250
Ala Ser Gly Thr Ser Met Asp Gln Asp Arg Ile Thr Ala Ile Met Tyr
            260
                               265
                                                    270
Thr Val Val Thr Pro Val Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn
                           280
Lys Glu Val Lys Gly Ala Phe Asn Arg Ala Met Lys Arg Trp Leu Trp
                       295
                                           300
Pro Lys Glu Ile Leu
305
<210> 1343
<211> 331
<212> PRT
<213> Unknown (H38g260 protein)
<223> Synthetic construct
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<221> VARIANT
<222> (1)...(331)
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Met Glu Ser Glu Asn Arg Thr Val Ile Arg Glu Phe Ile Leu Leu Arg
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Leu Thr Gln Phe Arg Asp Ile Xaa Leu Leu Val Phe Val Leu Val Leu
Ile Phe Tyr Phe Phe Ile Leu Pro Gly Asn Phe Leu Ile Ile Phe Thr
                           40
                                              45
Ile Arg Ser Asp Pro Gly Leu Thr Ala Pro Leu Tyr Leu Phe Leu Gly
                       55
Asn Leu Ala Phe Leu Asp Ala Ser Tyr Ser Phe Ile Val Ala Pro Arg
                   70
Met Leu Val Asp Phe Leu Ser Glu Lys Lys Val Ile Ser Tyr Arg Gly
                                   90
               85
Cys Ile Thr Gln Leu Phe Phe Leu His Phe Leu Gly Gly Glu Gly
                               105
Leu Leu Leu Val Val Met Ala Phe Asp Arg Tyr Ile Thr Ile Cys Leu
                           120
Pro Leu Gln Tyr Ser Thr Val Met Asn Ser Arg Ala Cys Tyr Ala Met
                       135
Met Leu Ala Leu Trp Leu Gly Gly Phe Val His Ser Ile Ile Gln Val
                                       155
Val Leu Ile Ile Arg Leu Pro Phe Cys Gly Pro Asn Gln Leu Asp Asn
                                                       175
               165
                                   170
Phe Phe Cys Asp Val Arg Gln Val Ile Lys Leu Ala Cys Thr Asp Met
                                                   190
                               185
           180
Phe Val Val Glu Leu Leu Met Val Phe Asn Ser Gly Leu Met Thr Leu
                           200
                                               205
       195
Met Cys Phe Leu Gly Leu Leu Ala Ser Tyr Ala Val Ile Leu Cys Arg
                                           220
                       215
Ile Arg Ala Ser Ser Ser Glu Ala Lys Asn Lys Ala Met Ser Thr Cys
                                       235
                   230
Thr Thr His Ile Ile Val Ile Phe Phe Met Phe Gly Pro Gly Ile Phe
                                                       255
                                   250
               245
Ile Tyr Thr Cys Pro Phe Arg Ala Phe Pro Ala Asp Lys Val Val Ser
                                                    270
                               265
           260
Leu Phe His Thr Val Ile Leu Pro Leu Leu Asn Pro Val Ile Tyr Thr
                           280
                                               285
       275
Leu His Asn Gln Glu Val Lys Ala Ser Met Lys Lys Val Phe Asn Lys
                        295
                                           300
His Ile Ala Xaa Lys Arg Ala Lys Lys Lys Arg Arg Lys Ile Asp Cys
                                       315
                   310
Lys Phe Tyr Leu Lys Leu Ile Cys Leu Phe Pro
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<210> 1344
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<213> Unknown (H38g261 protein)
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<223> Synthetic construct
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Met Glu Ile Val Ser Thr Gly Asn Glu Thr Ile Thr Glu Phe Val Leu
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10

Leu Gly Phe Tyr Asp Ile Pro Glu Leu His Phe Leu Phe Phe Ile Val

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25
                                                   30
Phe Thr Ala Val Tyr Val Phe Ile Ile Gly Asn Met Leu Ile Ile
                           40
Val Ala Val Val Ser Ser Gln Arg Leu His Lys Pro Met Tyr Ile Phe
                                           60
Leu Ala Asn Leu Ser Phe Leu Asp Ile Leu Tyr Thr Ser Ala Val Met
                                       75
Pro Lys Met Leu Glu Gly Phe Leu Gln Glu Ala Thr Ile Ser Val Ala
                                   90
Gly Cys Leu Leu Gln Phe Phe Ile Phe Gly Ser Leu Ala Thr Ala Glu
           100
                               105
Cys Leu Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys
                           120
                                               125
Tyr Pro Leu His Tyr Pro Leu Leu Met Gly Pro Arg Arg Tyr Met Gly
                       135
                                           140
Leu Val Val Thr Thr Trp Leu Ser Gly Phe Val Val Asp Gly Leu Val
                   150
                                       155
Val Ala Leu Val Ala Gln Leu Arg Phe Cys Gly Pro Asn His Ile Asp
               165
                                   170
Gln Phe Tyr Cys Asp Phe Met Leu Phe Val Gly Leu Ala Cys Ser Asp
           180
                               185
Pro Arg Val Ala Gln Val Thr Thr Leu Ile Leu Ser Val Phe Cys Leu
        195
                           200
Thr Ile Pro Phe Gly Leu Ile Leu Thr Ser Tyr Ala Arg Ile Val Val
                       215
                                           220
Ala Val Leu Arg Val Pro Ala Gly Ala Ser Arg Arg Ala Phe Ser
                                       235
                   230
Thr Cys Ser Ser His Leu Ala Val Val Thr Thr Phe Tyr Gly Thr Leu
                                   250
               245
Met Ile Phe Tyr Val Ala Pro Ser Ala Val His Ser Gln Leu Leu Ser
           260
                               265
Lys Val Phe Ser Leu Leu Tyr Thr Val Val Thr Pro Leu Phe Asn Pro
                           280
Val Ile Tyr Thr Met Arg Asn Lys Glu Val His Gln Ala Leu Arg Lys
                       295
Ile Leu Cys Ile Lys Gln Thr Glu Thr Leu Asp
                   310
<210> 1345
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Met Ser Ala Asn Thr Ser Met Val Thr Glu Phe Leu Leu Gly Phe
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Ser His Leu Ala Asp Leu Gln Gly Leu Leu Phe Ser Val Phe Leu Thr
                               25
           20
Ile Tyr Leu Leu Thr Val Ala Gly Asn Phe Leu Ile Val Val Leu Val
                           40
Ser Thr Asp Ala Ala Leu Gln Ser Pro Met Tyr Phe Phe Leu Arg Thr
                       55
Leu Ser Ala Leu Glu Ile Gly Tyr Thr Ser Val Thr Val Pro Leu Leu
                   70
Leu His His Leu Leu Thr Gly Arg Arg His Ile Ser Arg Ser Gly Cys
                                   90
Ala Leu Gln Met Phe Phe Phe Leu Phe Phe Gly Ala Thr Glu Cys Cys
                               105
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Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Glu Pro
                           120
Leu Arg Tyr Pro Leu Leu Ser His Arg Val Cys Leu Gln Leu Ala
                                           140
                      135
Gly Ser Ala Trp Ala Cys Gly Val Leu Val Gly Leu Gly His Thr Pro
                                       155
                  150
Phe Ile Phe Ser Leu Pro Phe Cys Gly Pro Asn Thr Ile Pro Gln Phe
              165
                                   170
Phe Cys Glu Ile Gln Pro Val Leu Gln Leu Val Cys Gly Asp Thr Ser
                               185
                                                   190
Leu Asn Glu Leu Gln Ile Ile Leu Ala Thr Ala Leu Leu Ile Leu Cys
                           200
Pro Phe Gly Leu Ile Leu Gly Ser Tyr Gly Arg Ile Leu Val Thr Ile
                      215
                                          220
Phe Arg Ile Pro Ser Val Ala Gly Arg Arg Lys Ala Phe Ser Thr Cys
                                      235
                  230
Ser Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Ala Leu Phe
              245
                                   250
Ile Tyr Ile Arg Pro Lys Ala Ser Tyr Asp Pro Ala Thr Asp Pro Leu
           260
                               265
Val Ser Leu Phe Tyr Ala Val Val Thr Pro Ile Leu Asn Pro Ile Ile
                           280
Tyr Ser Leu Arg Asn Thr Glu Val Lys Ala Ala Leu Lys Arg Thr Ile
                                           300
                      295
Gln Lys Thr Val Pro Met Glu Ile
                   310
<210> 1346
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<213> Unknown (H38g263 protein)
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Met Val Asn Gln Ser Ser Pro Met Gly Phe Leu Leu Gly Phe Ser
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Glu His Pro Ala Leu Glu Arg Thr Leu Phe Val Val Phe Thr Ser
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          20
Tyr Leu Leu Thr Leu Val Gly Asn Thr Leu Ile Ile Leu Leu Ser Val
                           40
                                               45
Leu Tyr Pro Arg Leu His Ser Pro Met Tyr Phe Phe Leu Ser Asp Leu
                                       60
                      55
Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Cys Val Pro Gln Met Leu
                  70
                                       75
Val Asn Leu Trp Gly Pro Lys Lys Thr Ile Ser Phe Leu Gly Cys Ser
               85
                                   90
                                                       95
Val Gln Leu Phe Ile Phe Leu Ser Leu Gly Thr Thr Glu Cys Ile Leu
                                                   110
                               105
Leu Thr Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Gln Pro Leu
                                               125
       115
                           120
His Tyr Ala Thr Ile Ile His Pro Arg Leu Cys Trp Gln Leu Ala Ser
                                           140
                       135
Val Ala Trp Val Met Ser Leu Val Gln Ser Ile Val Gln Thr Pro Ser
                                       155
                   150
Thr Leu His Leu Pro Phe Cys Pro His Gln Gln Ile Asp Asp Phe Leu
              165
                                  170
Cys Glu Val Pro Ser Leu Ile Arg Leu Ser Cys Gly Asp Thr Ser Tyr
                                                   190
                               185
Asn Glu Ile Gln Leu Ala Val Ser Ser Val Ile Phe Val Val Val Pro
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```
195
                            200
Leu Ser Leu Ile Leu Ala Ser Tyr Gly Ala Thr Ala Gln Ala Val Leu
                                           220
                       215
Arg Ile Asn Ser Ala Thr Ala Trp Arg Lys Ala Phe Gly Thr Cys Ser
                                       235
                   230
Ser His Leu Thr Val Val Thr Leu Phe Tyr Ser Ser Val Ile Ala Val
                                   250
               245
Tyr Leu Gln Pro Lys Asn Pro Tyr Ala Gln Gly Arg Gly Lys Phe Phe
                               265
           260
Gly Leu Phe Tyr Ala Val Gly Thr Pro Ser Leu Asn Pro Leu Val Tyr
                           280
Thr Leu Arg Asn Lys Glu Ile Lys Arg Ala Leu Arg Arg Leu Leu Gly
                       295
Lys Glu Arg Asp Ser Arg Glu Ser Trp Arg Ala Ala
                   310
<210> 1347
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<213> Unknown (H38g264 protein)
<220>
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<221> VARIANT
<222> (1)...(318)
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Met Lys Ser Glu Leu Asn Arg Asn Tyr Ser Glu Val Thr Glu Phe Ile
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Leu Leu Gly Phe Arg Thr Ser Pro Glu Ala Gln Ile Leu Leu Phe Phe
           20
                               25
Leu Phe Leu Leu Ile Tyr Met Val Ile Val Leu Arg Asn Leu Ser Met
 . 35
                           40
Leu Val Val Ile Glu Ile Asp Ser Arg Leu His Thr Pro Val Tyr Phe
                       55
Phe Leu Arg Asn Leu Ser Tyr Leu Asp Leu Arg Tyr Ser Thr Val Ile
                                       75
                   70
Ala Pro Lys Leu Thr Thr Leu Phe Ser Lys Glu Lys Lys Ile Ser Tyr
               85
                                   90
Asn Gly Xaa Ala Thr Gln Leu Phe Phe Phe Ala Leu Phe Val Gly Thr
                               105
           100
Glu Gly Phe Phe Leu Asp Met Met Ala Tyr Asp Arg Phe Ser Ala Ile
                                               125
                           120
Cys Ser Pro Phe Phe Tyr Thr Val Cys Met Ser Gln Gln Ala Cys Val
                       135
                                           140
Cys Leu Val Val Gly Ser Ser Ile Cys Gly Cys Ile Asn Ser Met Ile
                   150
                                       155
Gln Thr Gly Phe Thr Phe Ser Leu His Phe Cys Gly Glu Asn Arg Leu
                                   170
               165
Glu His Phe Phe Cys Asp Val Ser Val Met Ile Lys Ile Ser Cys Ile
                               185
Asp Ile Leu Val Asn Glu Val Val Leu Phe Ile Leu Ser Ala Leu Ile
                           200
                                               205
Thr Thr Thr Thr Val Ile Leu Ala Ser Tyr Val His Ile Leu Ser
                                           220
                       215
Thr Val Leu Lys Ile Leu Ser Thr His Gly Arg Arg Lys Thr Phe Ser
                   230
                                       235
Thr Cys Ser Ser His Ile Thr Val Val Ser Leu Phe Tyr Gly Thr Val
                                   250
                245
```

```
Phe Phe Met Tyr Ala Gln Pro Gly Ala Ile Pro Lys Ser Lys Val Ile
                              265
             260
 Val Val Phe Xaa Thr Leu Val Ile Pro Met Leu Asn Thr Leu Ile Tyr
                            280
 Ser Leu Arg Asn Lys Val Gln Asn Ala Leu Lys Arg Tyr Ile Asp Lys
                     295
                                            300
 Lys Asn Ile Phe His Trp Pro Leu Ala Ile Tyr Lys Thr Ile
                     310
 <210> 1348
 <211> 177
 <212> PRT
 <213> Unknown (H38g265 protein)
 <223> Synthetic construct
 <400> 1348
Met Ser Pro Arg Met Cys Leu Ser Phe Leu Ala Val Ala Trp Thr Leu
                5
                                    10
Gly Val Ser His Ser Leu Phe Gln Leu Ala Phe Leu Val Asn Leu Pro
                                25
Phe Cys Gly Pro Asn Val Leu Asp Ser Phe Tyr Cys Asp Leu Pro Arg
                            40
Leu Leu Arg Leu Ala Cys Thr Asp Thr Tyr Arg Leu Gln Phe Met Val
                        55
                                            60
Thr Val Asn Ser Gly Phe Ile Cys Val Gly Thr Phe Phe Ile Leu Leu
                    70
                                        75
Ile Ser Tyr Ile Phe Ile Leu Phe Thr Val Trp Lys His Ser Ser Gly
                                    90
Gly Ser Ser Lys Ala Leu Ser Thr Leu Ser Ala His Ser Thr Ala Val
            100
                                105
Leu Leu Phe Phe Gly Pro Pro Met Phe Val Tyr Thr Trp Pro His Pro
       115
                            120
                                                125
Asn Ser Gln Met Asp Lys Phe Leu Ala Ile Phe Asp Ala Val Leu Thr
                       135
                                           140
Pro Phe Leu Asn Pro Val Val Tyr Thr Phe Arg Asn Lys Glu Met Lys
                   150
                                       155
Ala Ala Ile Lys Arg Val Cys Lys Gln Leu Val Ile Tyr Lys Lys Ile
                165
                                    170
Ser
<210> 1349
<211> 322
<212> PRT
<213> Unknown (H38g266 protein)
<220>
<223> Synthetic construct
Met Glu Ala Glu Asn Leu Thr Glu Leu Ser Lys Phe Leu Leu Gly
                                    10
Leu Ser Met Ile Leu Asn Cys Ser Pro Phe Leu Phe Gly Leu Phe Leu
           20
                               25
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
                           40
                                               45
Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                        55
                                            60
Asn Leu Ser Phe Val Asp Ile Cys Phe Ile Ser Thr Thr Val Pro Lys
```

```
75
Met Leu Val Ser Ile Gln Ala Arg Ser Lys Asp Ile Ser Tyr Met Gly
                                   90
Cys Leu Thr Gln Val Tyr Phe Leu Met Met Phe Ala Gly Met Asp Thr
                               105
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His
                           120
                                               125
Pro Leu His Tyr Thr Val Ile Met Asn Pro Cys Leu Cys Gly Leu Leu
                       135
                                           140
Val Leu Ala Ser Trp Phe Ile Ile Phe Trp Phe Ser Leu Val His Ile
                   150
                                       155
Leu Leu Met Lys Arg Leu Thr Phe Ser Thr Gly Thr Glu Ile Pro His
                                   170
               165
Phe Phe Cys Glu Pro Ala Gln Val Leu Lys Val Ala Cys Ser Asn Thr
                               185
            180
Leu Leu Asn Asn Ile Val Leu Tyr Val Ala Thr Ala Leu Leu Gly Val
        195
                            200
Phe Pro Val Ala Gly Ile Leu Phe Ser Tyr Ser Gln Ile Val Ser Ser
                        215
                                            220
Leu Met Gly Met Ser Ser Thr Lys Gly Lys Tyr Lys Ala Phe Ser Thr
                    230
                                        235
Cys Gly Ser His Leu Cys Val Val Ser Leu Phe Tyr Gly Thr Gly Leu
                245
                                    250
Gly Val Tyr Leu Ser Ser Ala Val Thr His Ser Ser Gln Ser Ser Ser
                                265
Thr Ala Ser Val Met Tyr Ala Met Val Thr Pro Met Leu Asn Pro Phe
        275
                            280
                                                285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Glu Arg Leu
                        295
                                           300
Leu Ser Arg Ala Asp Ser Cys Pro Leu Thr Asn Gln Gly Leu Arg Thr
                                        315
Lys Arg
<210> 1350
<211> 322
<212> PRT
<213> Unknown (H38g267 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(322)
<223> Xaa = Any Amino Acid
<400> 1350
Tyr Thr Glu Pro Glu Asn Leu Thr Gly Val Leu Glu Phe Leu Leu
                5
                                   10
Gly Leu Pro Asp Asp Pro Glu Leu Gln Pro Val Leu Phe Gly Leu Phe
                               25
            20
Leu Ser Met Tyr Leu Val Met Val Leu Gly Asn Leu Leu Ile Ile Leu
                            40
Ala Val Ser Ser Asp Ser His Leu His Ser Pro Met Tyr Phe Phe Leu
                       55
Ser Asn Leu Ser Leu Ala Asp Ile Gly Phe Ala Ser Thr Thr Val Pro
Lys Met Ile Val Asp Ile Gln Ala His Ser Arg Leu Ile Ser Tyr Val
                                   90
Gly Cys Leu Thr Gln Met Ser Phe Leu Ile Phe Phe Ala Cys Met Glu
```

```
Ser Leu Leu Leu Ile Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys
                           120
                                                125
His Pro Leu His Tyr Gln Val Ile Met Ser Pro Arg Leu Cys Gly Phe
                       135
                                            140
Leu Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His
                   150
                                        155
Asn Leu Ile Val Leu Gln Leu Thr Cys Phe Asn Asp Val Glu Ile Ser
                                                        175
               165
                                    170
Asn Phe Phe Cys Asp Pro Ser Xaa Leu Leu Lys Leu Ala Cys Ser Asp
                                                    190
           180
                                185
Thr Ser Ile Asn Asn Met Val Val Tyr Phe Ile Gly Ala Ile Phe Gly
                            200
Phe Leu Pro Leu Leu Gly Ile Leu Phe Ser Tyr Tyr Lys Ile Val Ser
                                            220
                        215
Ser Ile Leu Arg Val Leu Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser
                   230
                                        235
Thr Cys Ser Ser His Leu Ser Val Val Cys Leu Leu Tyr Gly Thr Ala
                                   250
Leu Gly Gly Tyr Leu Ser Ser Ala Val Ser Leu Ser Ser Arg Lys Gly
                                                    270
           260
                               265
Ala Val Ala Ser Val Met Tyr Met Val Val Thr Pro Met Leu Asn Pro
                           280
                                               285
Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Gln Arg
                                            300
                       295
Leu His Gly Arg Ile Met Xaa Ser Pro Tyr Leu Leu His Leu Phe Cys
                   310
                                        315
Ser Ile
```

```
<210> 1351
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## <220>

<223> Synthetic construct

## <400> 1351

Met Arg Gln Ile Asn Gln Thr Gln Val Thr Glu Phe Leu Leu Gly 10 5 Leu Ser Asp Gly Pro His Thr Glu Gln Leu Leu Phe Ile Val Leu Leu 25 Gly Val Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Leu Ile Ser Leu 45 40 Val His Val Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Cys 55 Asn Leu Ser Leu Ala Asp Leu Cys Phe Ser Thr Asn Ile Val Pro Gln 75 Ala Leu Val His Leu Leu Ser Arg Lys Lys Val Ile Ala Phe Thr Leu 85 90 Cys Ala Ala Arg Leu Leu Phe Phe Leu Ile Phe Gly Cys Thr Gln Cys 105 100 Ala Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Asn 125 120 115 Pro Leu Arg Tyr Pro Asp Ile Met Thr Trp Lys Val Cys Val Gln Leu 140 135 Ala Thr Gly Ser Trp Thr Ser Gly Ile Leu Val Ser Val Val Asp Thr 155 150 Thr Phe Thr Leu Arg Leu Pro Tyr Arg Gly Ser Asn Ser Ile Ala His 170 165 Phe Phe Cys Glu Ala Pro Ala Leu Leu Ile Leu Ala Ser Thr Asp Thr

<sup>&</sup>lt;211> 308

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Unknown (H38g268 protein)

```
185
            180
His Ala Ser Glu Met Ala Ile Phe Leu Thr Gly Val Val Ile Leu Leu
                            200
Ile Pro Val Phe Leu Ile Leu Val Ser Tyr Gly Arg Ile Ile Val Thr
                        215
Val Val Lys Met Lys Ser Thr Val Gly Ser Leu Lys Ala Phe Ser Thr
                   230
                                        235
Cys Gly Ser His Leu Met Val Val Ile Leu Phe Tyr Gly Ser Ala Ile
                                    250
               245
Ile Thr Tyr Met Thr Pro Lys Ser Ser Lys Gln Glu Lys Ser Val
                               265
                                                    270
Ser Val Phe Tyr Ala Ile Val Thr Pro Met Leu Asn Pro Leu Ile Tyr
                           280
                                                285
Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Leu Arg Lys Val Ala Thr
                        295
Arg Asn Phe Pro
305
<210> 1352
<211> 321
<212> PRT
<213> Unknown (H38g269 protein)
<220>
<223> Synthetic construct
<400> 1352
Met Pro Ile Leu Met Ala Ile Gly Asn Trp Thr Glu Ile Ser Glu Phe
                                    10
Ile Leu Met Ser Phe Ser Ser Leu Pro Thr Glu Ile Gln Ser Leu Leu
                                25
            20
Phe Leu Thr Phe Leu Thr Ile Tyr Leu Val Thr Leu Lys Gly Asn Ser
                            40
Leu Ile Ile Leu Val Thr Leu Ala Asp Pro Met Leu His Ser Pro Met
Tyr Phe Phe Leu Arg Asn Leu Ser Phe Leu Glu Ile Gly Phe Asn Leu
                    70
                                        75
Val Ile Val Pro Lys Met Leu Gly Thr Leu Leu Ala Gln Asp Thr Thr
                85
                                    90
Ile Ser Phe Leu Gly Cys Ala Thr Gln Met Tyr Phe Phe Phe Phe Phe
            100
                                105
Gly Val Ala Glu Cys Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr
                            120
                                                125
Val Ala Ile Cys Ser Pro Leu His Tyr Pro Val Ile Met Asn Gln Arg
                        135
                                            140
Thr Arg Ala Lys Leu Ala Ala Ala Ser Trp Phe Pro Gly Phe Pro Val
                    150
                                        155
Ala Thr Val Gln Thr Thr Trp Leu Phe Ser Phe Pro Phe Cys Gly Thr
                                    170
Asn Lys Val Asn His Phe Phe Cys Asp Ser Pro Pro Val Leu Lys Leu
            180
                                185
                                                    190
Val Cys Ala Asp Thr Ala Leu Phe Glu Ile Tyr Ala Ile Val Gly Thr
                            200
                                                205
Ile Leu Val Val Met Ile Pro Cys Leu Leu Ile Leu Cys Ser Tyr Thr
                                            220
                        215
Arg Ile Ala Ala Ile Leu Lys Ile Pro Ser Ala Lys Gly Lys His
                   230
                                        235
Lys Ala Phe Ser Thr Cys Ser Ser His Leu Leu Val Val Ser Leu Phe
               245
                                    250
Tyr Ile Ser Ser Ser Leu Thr Tyr Phe Trp Pro Lys Ser Asn Asn Ser
                                265
```

```
Pro Glu Ser Lys Lys Leu Leu Ser Leu Ser Tyr Thr Val Val Thr Pro
                       280
Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Ser Glu Val Lys Asn
                                           300
                      295
Ala Leu Ser Arg Thr Phe His Lys Val Leu Ala Leu Arg Asn Cys Ile
                                       315
    310
Pro
<210> 1353
<211> 260
<212> PRT
<213> Unknown (H38g270 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(260)
<223> Xaa = Any Amino Acid
<400> 1353
Ala His Leu Ser Phe Leu Asp Leu Ser Phe Thr Thr Ser Ser Ile Pro
               5
                                   10
1
Gln Leu Leu Tyr Asn Leu Asn Gly Cys Asp Lys Thr Ile Ser Tyr Met
                               25
           20
Gly Cys Ala Ile Gln Leu Phe Leu Phe Leu Gly Leu Gly Gly Val Glu
                          40
                                              45
Cys Leu Leu Leu Ala Val Met Ala Tyr Asp Arg Cys Val Ala Ile Cys
                                           60
                       55
Lys Pro Leu His Tyr Met Val Ile Met Asn Pro Arg Leu Cys Arg Gly
                                       75
                   70
Leu Val Ser Val Thr Trp Ser Cys Trp Gly Gly Gln Leu Leu Gly His
                                   90
               85
Val Ser Trp Thr Leu Arg Leu Pro Arg Cys Gly His His Glu Val Asp
                              105
           100
His Phe Leu Arg Glu Met Pro Ala Leu Ile Arg Met Ala Cys Val Ser
                                              125
                          120
    115
Thr Val Ala Ile Glu Gly Thr Val Phe Val Leu Ala Val Gly Val Val
                       135
                                           140
Leu Ser Pro Leu Val Phe Ile Leu Leu Ser Tyr Ser Tyr Ile Val Arg
                                       155
                  150
Ala Val Leu Gln Ile Arg Ser Ala Ser Gly Arg Gln Lys Ala Phe Gly
                                   170
              165
Thr Cys Gly Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly Asn Ile
                               185
                                                   190
           180
Ile Tyr Met Tyr Met Gln Pro Gly Ala Ser Ser Ser Gln Asp Gln Gly
                                               205
                           200
Met Phe Leu Met Leu Phe Tyr Asn Ile Val Thr Pro Leu Leu Asn Pro
                       215
                                           220
Leu Ile Tyr Thr Leu Arg Asn Arg Glu Val Lys Gly Ala Leu Gly Arg
                                      235
                   230
Leu Leu Cly Lys Arg Glu Leu Gly Lys Glu Xaa Arg His Leu His
                                   250
Leu Thr Ser Leu
           260
<210> 1354
<211> 329
<212> PRT
<213> Unknown (H38g271 protein)
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Control of the contro

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<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(329)
<223> Xaa = Any Amino Acid
<400> 1354
Glu Glu Ile Leu Xaa Ile Ile Ser Gln His Val His Thr Gly Cys Val
Gln Asn Xaa Glu Leu Gln Pro Ile Leu Phe Gly Leu Phe Leu Ser Met
                                25
Cys Leu Val Met Val Leu Gly Asn Leu Leu Ile Ile Leu Ala Val Ser
                            40
Ser Asp Ser His Leu His Thr Pro Thr Tyr Phe Phe Leu Ser Asn Leu
                        55
                                            60
Ser Leu Ala Asp Ile Gly Phe Pro Ser Thr Thr Val Pro Lys Met Ile
                    70
                                        75
Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu
                85
                                    90
Thr Gln Ile Ser Leu Phe Ala Val Phe Gly Cys Met Glu Asp Met Leu
            100
                                105
                                                    110
Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu
                            120
                                                125
Asp Tyr Pro Val Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
                        135
                                            140
Leu Ser Phe Phe Leu Ser Leu Leu Asp Phe Gln Leu His Asn Trp Ile
                    150
                                        155
Ala Leu Gln Ile Thr Cys Phe Lys Asp Val Glu Ile Pro Ser Phe Phe
                                    170
                165
Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr
            180
                                185
                                                    190
Asn Asn Ile Val Met Tyr Phe Leu Ala Ala Ile Leu Gly Phe Leu Pro
                            200
                                                 205
Ile Ser Gly Ile Phe Tyr Ser Tyr Tyr Lys Ile Val Ser Ser Ile Leu
                        215
                                            220
Lys Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly
                    230
                                        235
Ser His Leu Ser Val Val Cys Leu Phe Tyr Gly Thr Ala Leu Gly Gly
                245
                                    250
Tyr Leu Ser Ser Asp Met Ser Ser Tyr Pro Arg Lys Gly Ala Val Ala
            260
                                265
                                                    270
Ser Val Met Tyr Thr Val Val Ala Pro Met Leu Asn Pro Phe Ile Tyr
                            280
                                                285
Ser Leu Arg Lys Arg Asp Ile Lys Ser Ala Leu Gln Gln Leu His Gly
                        295
                                            300
Arg Ile Val Xaa Ser His Asp Leu Ile Ile Gly Ser Ile Leu Xaa Pro
                    310
                                        315
Trp Val Gly Lys Gly Ser Lys Val Lys
                325
<210> 1355
<211> 321
<212> PRT
<213> Unknown (H38g272 protein)
<223> Synthetic construct
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<400> 1355

```
Met Glu Ser Pro Asn His Thr Asp Val Asp Pro Ser Val Phe Phe Leu
                5
                                   10
Leu Gly Ile Pro Gly Leu Glu Gln Phe His Leu Trp Leu Ser Leu Pro
                                25
Val Cys Gly Leu Gly Thr Ala Thr Ile Val Gly Asn Ile Thr Ile Leu
                           40
Val Val Val Ala Thr Glu Pro Val Leu His Lys Pro Val Tyr Leu Phe
Leu Cys Met Leu Ser Thr Ile Asp Leu Ala Ala Ser Val Ser Thr Val
                    70
Pro Lys Leu Leu Ala Ile Phe Trp Cys Gly Ala Gly His Ile Ser Ala
                                   90
Ser Ala Cys Leu Ala Gln Met Phe Phe Ile His Ala Phe Cys Met Met
                               105
           100
Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
                           120
                                               125
Cys His Pro Leu Arg Tyr Ala Thr Ile Leu Thr Asp Thr Ile Ile Ala
                                        140
                       135
His Ile Gly Val Ala Ala Val Val Arg Gly Ser Leu Leu Met Leu Pro
                                        155
                    150
Cys Pro Phe Leu Ile Gly Arg Leu Asn Phe Cys Gln Ser His Val Ile
                                    170
               165
Leu His Thr Tyr Cys Glu His Met Ala Val Val Lys Leu Ala Cys Gly
                                185
                                                    190
           180
Asp Thr Arg Pro Asn Arg Val Tyr Gly Leu Thr Ala Ala Leu Leu Val
                                                205
                           200
Ile Gly Val Asp Leu Phe Cys Ile Gly Leu Ser Tyr Ala Leu Ser Ala
                       215
Gln Ala Val Leu Arg Leu Ser Ser His Glu Ala Arg Ser Lys Ala Leu
                    230
                                        235
Gly Thr Cys Gly Ser His Val Cys Val Ile Leu Ile Ser Tyr Thr Pro
                                                        255
                                   250
               245
Ala Leu Phe Ser Phe Phe Thr His Arg Phe Gly His His Val Pro Val
                                                    270
                                265
           260
His Ile His Ile Leu Leu Ala Asn Val Tyr Leu Leu Leu Pro Pro Ala
                           280
                                                285
Leu Asn Pro Val Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Lys Arg
                                            300
                       295
Val Val Arg Val Phe Gln Ser Gly Gln Gly Met Gly Ile Lys Ala Ser
                    310
305
Glu
```

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<210>J1356
```

### <400> 1356

 Met
 Thr
 Trp
 Ser
 Gly
 Gly
 Thr
 Ile
 Val
 Gly
 Glu
 Xaa
 Gly
 Glu
 Phe
 Val

 Leu
 Leu
 Gly
 <sup>&</sup>lt;211> 327

<sup>&</sup>lt;212> PRT :

<sup>&</sup>lt;213> Unknown (H38g273 protein)

<sup>&</sup>lt;220>

<sup>&</sup>lt;223> Synthetic construct

<sup>&</sup>lt;221> VARIANT

<sup>&</sup>lt;222> (1)...(327)

<sup>&</sup>lt;223> Xaa = Any Amino Acid

```
40
Ile Met Ala Ile Arg Asn His Ser Thr Leu His Lys Pro Met Tyr Phe
                       55
Phe Leu Ala Asn Met Ser Phe Leu Glu Ile Trp Tyr Val Thr Val Thr
                    70
Ile Pro Lys Met Leu Ala Gly Phe Val Gly Ser Lys Gln Asp His Gly
                                    90
Gln Leu Ile Ser Phe Glu Gly Cys Met Thr Gln Leu Tyr Phe Phe Leu
            100
                                105
Gly Leu Gly Cys Thr Glu Cys Val Leu Leu Ala Val Met Ala Tyr Asp
                            120
Arg Tyr Met Ala Ile Cys Tyr Pro Leu His Tyr Pro Val Ile Val Ser
                       135
Gly Arg Leu Cys Val Gln Met Ala Ala Gly Ser Trp Ala Gly Gly Phe
                   150
                                       155
Gly Ile Ser Met Val Lys Val Phe Leu Ile Ser Gly Leu Ser Tyr Cys
                                    170
Gly Pro Asn Ile Ile Asn His Phe Phe Cys Asp Val Ser Pro Leu Leu
                                185
Asn Leu Ser Cys Thr Asp Met Ser Thr Ala Glu Leu Thr Asp Phe Ile
                           200
                                                205
Leu Ala Ile Phe Ile Leu Leu Gly Pro Leu Ser Val Thr Gly Ala Ser
                       215
                                            220
Tyr Val Ala Ile Thr Gly Ala Val Met His Ile Pro Ser Ala Ala Gly
                    230
                                        235
Arg Tyr Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Val Val Ile
                                    250
Ile Phe Tyr Ala Ala Ser Ile Phe Ile Tyr Ala Arg Pro Lys Ala Leu
                                265
Ser Ala Phe Asp Thr Asn Lys Leu Val Ser Val Leu Tyr Ala Val Ile
                            280
                                                285
Val Pro Leu Leu Asn Pro Ile Ile Tyr Cys Leu Arg Asn Gln Glu Val
                        295
                                            300
Lys Arg Ala Leu Cys Cys Thr Leu His Leu Tyr Gln His Gln Asp Pro
                   310
                                        315
Asp Pro Lys Lys Ala Ser Arg
                325
<210> 1357
<211> 312
<212> PRT
<213> Unknown (H38g274 protein)
<220>
<223> Synthetic construct
<400> 1357
Met Glu Ala Gly Asn Gln Thr Gly Phe Leu Glu Phe Ile Leu Leu Gly
                                    10
Leu Ser Glu Asp Pro Glu Leu Gln Pro Phe Ile Phe Gly Leu Phe Leu
Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ala
                            40
Ile Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
Asn Leu Ser Trp Val Asp Ile Cys Phe Ser Thr Cys Ile Val Pro Lys
                    70
                                        75
Met Leu Val Asn Ile Gln Thr Glu Asn Lys Ala Ile Ser Tyr Met Asp
               85
                                   90
Cys Leu Thr Gln Val Tyr Phe Ser Met Phe Phe Pro Ile Leu Asp Thr
```

105

```
Leu Leu Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys His
                           120
 Pro Leu His Tyr Met Ile Ile Met Asn Pro His Leu Cys Gly Leu Leu
                         135
 Val Phe Val Thr Trp Leu Ile Gly Val Met Thr Ser Leu Leu His Ile
                    150
                                        155
 Ser Leu Met Met His Leu Ile Phe Cys Lys Asp Phe Glu Ile Pro His
                165
                                    170
 Phe Phe Cys Glu Leu Thr Tyr Ile Leu Gln Leu Ala Cys Ser Asp Thr
                                185
 Phe Leu Asn Ser Thr Leu Ile Tyr Phe Met Thr Gly Val Leu Gly Val
                            200
 Phe Pro Leu Gly Ile Ile Phe Ser Tyr Ser Arg Ile Ala Ser Ser
                        215
 Ile Arg Lys Met Ser Ser Ser Gly Gly Lys Gln Lys Ala Leu Ser Thr
                   230
                                        235
 Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Gly Ile
                245
                                    250
 Gly Val His Phe Thr Ser Ala Val Thr His Ser Ser Gln Lys Ile Ser
                                265
 Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
                            280
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Gly Ser Leu
                       295
Leu Ser Arg Ala Ala Ser Cys Leu
                    310
<210> 1358
<211> 320
<212> PRT
<213> Unknown (H38g275 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(320)
<223> Xaa = Any Amino Acid
<400> 1358
Met Thr Ala Cys Asn Ala Ser Gln Gly His Pro Ser Phe Phe Ile Leu
                                    10
Gln Gly Ile Pro Gly Met Glu Asp Lys His Arg Trp Ile Ser Ile Pro
                                25
Phe Ser Ser Met Tyr Phe Ile Met Val Leu Gly Asn Cys Thr Ile Leu
                           40
Leu Thr Ile Ser Thr Glu Arg Ser Leu His Lys Pro Met Phe Leu Leu
                       55
                                           60
Leu Cys Leu Leu Ala Leu Thr Asp Leu Gly Met Ser Thr Thr Thr Ile
                   70
                                        75
Pro Lys Val Leu Cys Ile Phe Trp Phe Gly Gln Ser Glu Ile Ser Tyr
                                    90
Glu Gly Cys Leu Val Gln Leu Phe Phe Ile His Ser Ile Ser Ala Met
           100
                               105
                                                    110
Gln Ser Ala Val Leu Met Thr Met Ala Phe Asp His Tyr Val Ala Ile
                            120
                                                125
Cys Lys Pro Leu Arg Tyr Ala Thr Ile Leu Ser Asn Ser Cys Thr Gly
                       135
                                            140
Leu Ile Gly Leu Val Ser Leu Val Arg Ala Ile Leu Phe Ile Leu Pro
                   150
                                       155
Met Pro Ile Leu Leu Gln Gln Met Pro Tyr His Ala Asn Arg Val Ile
```

```
165
                                    170
Pro Thr Thr Ser Cys Glu His Met Ala Val Val Lys Met Val Cys Val
                               185
Asp Thr Thr Val Asn Arg Ile Tyr Gly Leu Val Val Ala Leu Leu Val
                           200
Ala Gly Tyr Asp Leu Ser Ala Ile Ala Ser Ser Tyr Val Leu Ile Ile
                       215
                                           220
Gln Ala Ile Met His Leu Ser Ser Lys Glu Ala His His Lys Ala Val
                   230
                                       235
Asn Thr Cys Thr Thr His Ile Cys Val Met Leu Ile Ser Tyr Thr Pro
               245
                                   250
Ser Leu Phe Ser Phe Leu Ala His Arg Phe Gly Gln Gly Ile Pro Pro
           260
                                265
His Val His Ile Ile Leu Gly Asn Leu Tyr Phe Leu Val Pro Pro Met
                            280
                                                285
Leu Ser Pro Ile Ile Tyr Gly Val Lys Thr Lys Glu Phe Trp Asp Lys
                                           300
                       295
Val Thr Lys Xaa Val Ala Gly Lys Lys Asn Pro Gln Pro Leu Thr Met
                    310
                                       315
<210> 1359
<211> 316
<212> PRT
<213> Unknown (H38g276 protein)
<220>
<223> Synthetic construct
<400> 1359
Met Glu Leu Trp Asn Phe Thr Leu Gly Ser Gly Phe Ile Leu Val Gly
                                    10
Ile Leu Asn Asp Ser Gly Ser Pro Glu Leu Leu Cys Ala Thr Ile Thr
                                25
Ile Leu Tyr Leu Leu Ala Leu Ile Ser Asn Gly Leu Leu Leu Ala
                            40
Ile Thr Met Glu Ala Arg Leu His Met Pro Met Tyr Leu Leu Gly
                        55
                                           60
Gln Leu Ser Leu Met Asp Leu Leu Phe Thr Ser Val Val Thr Pro Lys
                   70
                                       75
Ala Leu Ala Asp Phe Leu Arg Arg Glu Asn Thr Ile Ser Phe Gly Gly
               85
                                   90
Cys Ala Leu Gln Met Phe Leu Ala Leu Thr Met Gly Gly Ala Glu Asp
           100
                               105
Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
                            120
                                               125
Pro Leu Thr Tyr Met Thr Leu Met Ser Ser Arg Ala Cys Trp Leu Met
                        135
Val Ala Thr Ser Trp Ile Leu Ala Ser Leu Ser Ala Leu Ile Tyr Thr
                   150
                                       155
Val Tyr Thr Met His Tyr Pro Phe Cys Arg Ala Gln Glu Ile Arg His
               165
                                   170
Leu Leu Cys Glu Ile Pro His Leu Leu Lys Val Ala Cys Ala Asp Thr
           180
                               185
Ser Arg Tyr Glu Leu Met Val Tyr Val Met Gly Val Thr Phe Leu Ile
                           200
Pro Ser Leu Ala Ala Ile Leu Ala Ser Tyr Thr Gln Ile Leu Leu Thr
                       215
                                           220
Val Leu His Met Pro Ser Asn Glu Gly Arg Lys Lys Ala Leu Val Thr
                   230
                                       235
Cys Ser Ser His Leu Thr Val Val Gly Met Phe Tyr Gly Ala Ala Thr
                                   250
```

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Phe Met Tyr Val Leu Pro Ser Ser Phe His Ser Thr Arg Gln Asp Asn
            260
                   265
 Ile Ile Ser Val Phe Tyr Thr Ile Val Thr Pro Ala Leu Asn Pro Leu
                           280
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Met Arg Ala Leu Arg Arg Val
            295
Leu Gly Lys Tyr Met Leu Pro Ala His Ser Thr Leu
                   310
<210> 1360
<211> 312
<212> PRT
<213> Unknown (H38g277 protein)
<220>
<223> Synthetic construct
<400> 1360
Met Lys Ala Gly Asn Phe Ser Asp Thr Pro Glu Phe Phe Leu Leu Gly
                                    10
Leu Ser Gly Asp Pro Glu Leu Gln Pro Ile Leu Phe Met Leu Phe Leu
                               25
Ser Met Tyr Leu Ala Thr Met Leu Gly Asn Leu Leu Ile Ile Leu Ala
                            40
                                               45
Val Asn Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Leu Leu Ser
                       55
Ile Leu Ser Leu Val Asp Ile Cys Phe Thr Ser Thr Thr Met Pro Lys
                   70
                                       75
Met Leu Val Asn Ile Gln Ala Gln Ala Gln Ser Ile Asn Tyr Thr Gly
               85
                                   90
Cys Leu Thr Gln Ile Cys Phe Val Leu Val Phe Val Gly Leu Glu Asn
           100
                               105
Gly Ile Leu Val Met Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His
      115
                           120
                                               125
Pro Leu Arg Tyr Asn Val Ile Met Asn Pro Lys Leu Cys Gly Leu Leu
                       135
                                          140
Leu Leu Ser Phe Ile Val Ser Val Leu Asp Ala Leu Leu His Thr
                   150
                                       155
Leu Met Val Leu Gln Leu Thr Phe Cys Ile Asp Leu Glu Ile Pro His
               165
                                   170
Phe Phe Cys Glu Leu Ala His Ile Leu Lys Leu Ala Cys Ser Asp Val
           180
                               185
                                                  190
Leu Ile Asn Asn Ile Leu Val Tyr Leu Val Thr Ser Leu Leu Gly Val
       195
                           200
                                               205
Val Pro Leu Ser Gly Ile Ile Phe Ser Tyr Thr Arg Ile Val Ser Ser
                       215
                                           220
Val Met Lys Ile Pro Ser Ala Gly Gly Lys Tyr Lys Ala Phe Ser Ile
                   230
                                       235
Cys Gly Ser His Leu Ile Val Val Ser Leu Phe Tyr Gly Thr Gly Phe
               245
                                   250
                                                       255
Gly Val Tyr Leu Ser Ser Gly Ala Thr His Ser Ser Arg Lys Gly Ala
                               265
                                                   270
Ile Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Leu
                           280
                                               285
Ile Tyr Ser Leu Arg Asn Lys Asp Met Leu Lys Ala Leu Arg Lys Leu
                       295
Ile Ser Arg Ile Pro Ser Phe His
                   310
<210> 1361
<211> 328
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<212> PRT
<213> Unknown (H38g278 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(328)
<223> Xaa = Any Amino Acid
<400> 1361
Lys Ile Ser Asn Ser Ser Lys Phe Gln Val Ser Glu Phe Ile Leu Leu
                                    10
Gly Phe Pro Gly Ile His Ser Trp Gln His Trp Leu Ser Leu Pro Leu
                                25
            20
Ala Leu Leu Tyr Leu Ser Ala Leu Ala Ala Asn Thr Leu Ile Leu Ile
                            40
Ile Ile Trp Gln Asn Pro Ser Leu Gln Gln Pro Met Tyr Ile Phe Leu
                        55
Gly Ile Leu Cys Met Val Asp Met Gly Leu Ala Thr Thr Ile Ile Pro
Lys Ile Leu Ala Ile Phe Trp Phe Asp Ala Lys Val Ile Ser Leu Pro
Glu Cys Phe Ala Gln Ile Tyr Ala Ile His Phe Phe Val Gly Met Glu
                                105
Ser Gly Ile Leu Cys Met Ala Phe Asp Arg Tyr Val Ala Ile Cys
                            120
                                                125
His Pro Leu Arg Tyr Pro Ser Ile Val Thr Ser Ser Leu Ile Leu Lys
                        135
                                            140
Ala Thr Leu Phe Met Val Leu Arg Asn Gly Leu Phe Val Thr Pro Val
                    150
                                        155
Pro Val Leu Ala Ala Gln Arg Asp Tyr Cys Ser Lys Asn Glu Ile Glu
                                    170
His Cys Leu Cys Ser Asn Leu Gly Val Thr Ser Leu Ala Cys Asp Asp
                                185
Arg Arg Pro Asn Ser Ile Cys Gln Leu Val Leu Ala Trp Leu Gly Met
                            200
                                                205
Gly Ser Asp Leu Ser Leu Ile Ile Leu Ser Tyr Ile Leu Ile Leu Tyr
                       215
                                            220
Ser Val Leu Arg Leu Asn Ser Ala Glu Ala Ala Ala Lys Ala Leu Ser
                    230
                                        235
Thr Cys Ser Ser His Leu Thr Leu Ile Leu Phe Phe Tyr Thr Ile Val
                245
                                    250
Val Val Ile Ser Val Thr His Leu Thr Glu Met Lys Ala Thr Leu Ile
                                265
Pro Val Leu Leu Asn Val Leu His Asn Ile Ile Pro Pro Ser Leu Asn
                            280
                                                285
Pro Thr Val Tyr Ala Leu Gln Thr Lys Glu Leu Arg Ala Ala Phe Gln
                       295
                                           300
Lys Val Leu Phe Ala Leu Thr Lys Glu Ile Arg Ser Xaa Arg Pro Ser
                   310
                                        315
Pro Xaa Cys Thr Xaa Thr Ser Ala
                325
<210> 1362
<211> 316
<212> PRT
<213> Unknown (H38g279 protein)
<220>
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668

<223> Synthetic construct

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<400> 1362
Met Glu Leu Arg Asn Ser Thr Leu Gly Ser Gly Phe Ile Leu Val Gly
                                   10
                5
Ile Leu Asn Asp Ser Gly Ser Pro Glu Leu Leu Tyr Ala Thr Phe Thr
                               25
          20
Ile Leu Tyr Met Leu Ala Leu Thr Ser Asn Gly Leu Leu Leu Ala
                           40
      3.5
Ile Thr Ile Glu Ala Arg Leu His Met Pro Met Tyr Leu Leu Gly
                                           60
Gln Leu Ser Leu Met Asp Leu Leu Phe Thr Ser Val Val Thr Pro Lys
                                       75
                   70
Ala Leu Ala Asp Phe Leu Arg Arg Glu Asn Thr Ile Ser Phe Gly Gly
                                  90
               85
Cys Ala Leu Gln Met Phe Leu Ala Leu Thr Met Gly Ser Ala Glu Asp
                              105
           100
Leu Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
                                              125
                          120
Pro Leu Lys Tyr Met Thr Leu Met Ser Pro Arg Val Cys Trp Ile Met
                                          140
                      135 .
Val Ala Thr Ser Trp Ile Leu Ala Ser Leu Ile Ala Ile Gly His Thr
                                       155
                  150
Met Tyr Thr Met His Leu Pro Phe Cys Val Ser Trp Glu Ile Arg His
                                   170
                                                       175
               165
Leu Leu Cys Glu Ile Pro Pro Leu Leu Lys Leu Ala Cys Ala Asp Thr
                               185
           180
Ser Arg Tyr Glu Leu Ile Ile Tyr Val Thr Gly Val Thr Phe Leu Leu
                           200
       195
Leu Pro Ile Ser Ala Ile Val Ala Ser Tyr Thr Leu Val Leu Phe Thr
                                           220
                       215
Val Leu Arg Met Pro Ser Asn Glu Gly Arg Lys Lys Ala Leu Val Thr
                                       235
                  230
Cys Ser Ser His Leu Ile Val Val Gly Met Phe Tyr Gly Ala Ala Thr
                                   250
               245
Phe Met Tyr Val Leu Pro Ser Ser Phe His Ser Pro Lys Gln Asp Asn
           260
                               265
                                                  270
Ile Ile Ser Val Phe Tyr Thr Ile Val Thr Pro Ala Leu Asn Pro Leu
                                              285
        275
                          280
Ile Tyr Ser Leu Arg Asn Lys Glu Val Met Arg Ala Leu Arg Arg Val
                     295
Leu Gly Lys Tyr Ile Leu Leu Ala His Ser Thr Leu
<210> 1363
<211> 299
<212> PRT
<213> Unknown (H38g280 protein)
<223> Synthetic construct
<400> 1363
Met Gly Phe Pro Gly Ile His Ser Trp Gln His Trp Leu Ser Leu Pro
                5
Leu Ala Leu Leu Tyr Leu Leu Ala Leu Ser Ala Asn Ile Leu Ile Leu
                               25
Ile Ile Ile Asn Lys Glu Ala Ala Leu His Gln Pro Met Tyr Tyr Phe
                                               45
                           40
Leu Gly Ile Leu Ala Met Ala Asp Ile Gly Leu Ala Thr Thr Ile Met
                       55
Pro Lys Ile Leu Ala Ile Leu Trp Phe Asn Ala Lys Thr Ile Ser Leu
```

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70
                                        75
Leu Glu Cys Phe Ala Gln Met Tyr Ala Ile His Cys Phe Val Ala Met
                                    90
Glu Ser Ser Thr Phe Val Cys Met Ala Ile Asp Arg Tyr Val Ala Ile
            100
                                105
Cys Arg Pro Leu Arg Tyr Pro Ser Ile Ile Thr Glu Ser Phe Val Phe
                           120
                                                125
Lys Ala Asn Gly Phe Met Ala Leu Arg Asn Ser Leu Cys Leu Ile Ser
                                            140
                       135
Val Pro Leu Leu Ala Ala Gln Arg His Tyr Cys Ser Gln Asn Gln Ile
                   150
                                        155
Glu His Cys Leu Cys Ser Asn Leu Gly Val Thr Ser Leu Ser Cys Asp
                                   170
Asp Arg Arg Ile Asn Ser Ile Asn Gln Val Leu Leu Ala Trp Thr Leu
                               185
                                                    190
Met Gly Ser Asp Leu Gly Leu Ile Ile Leu Ser Tyr Ala Leu Ile Leu
                           200
                                                205
Tyr Ser Val Leu Lys Leu Asn Ser Pro Glu Ala Ala Ser Lys Ala Leu
                       215
                                           220
Ser Thr Cys Thr Ser His Leu Ile Leu Ile Leu Phe Phe Tyr Thr Val
                   230
                                        235
Ile Ile Val Ile Ser Ile Thr Arg Ser Thr Gly Met Arg Val Pro Leu
                                    250
                245
Ile Pro Val Leu Leu Asn Val Leu His Asn Val Ile Pro Pro Ala Leu
                                                    270
                                265
Asn Pro Met Val Tyr Ala Leu Lys Asn Lys Glu Leu Arg Gln Gly Leu
                            280
Tyr Lys Val Leu Arg Leu Gly Val Lys Gly Thr
    290
                        295
<210> 1364
<211> 327
<212> PRT
<213> Unknown (H38g281 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(327)
<223> Xaa = Any Amino Acid
<400> 1364
Met Thr Trp Ser Gly Gly Thr Leu Val Gly Glu Xaa Gly Glu Phe Val
                                    10
Leu Leu Gly Phe Pro Ala Pro Ala Pro Leu Gln Val Leu Ser Phe Ala
                                25
Arg Xaa Ser Ala Ala Tyr Ala Leu Val Leu Thr Glu Asn Thr Leu Ile
                            40
Ile Met Ala Ser Arg Asn His Ser Thr Leu His Lys Pro Met Tyr Phe
                        55
Val Leu Ala Asn Met Ser Ser Leu Glu Ile Trp Tyr Val Thr Val Thr
                    70
                                        75
Ile Pro Lys Met Leu Ala Gly Phe Val Gly Ser Lys Gln Asp His Gly
                                    90
Gln Leu Ile Ser Phe Glu Gly Cys Met Thr Gln Leu Tyr Phe Phe Leu
           100
                                105
Gly Leu Gly Cys Thr Glu Cys Val Leu Leu Ala Val Met Ala Tyr Asp
                           120
                                               125
Arg Tyr Met Ala Ile Cys Tyr Pro Leu His Tyr Pro Val Ile Val Ser
                       135
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Gly Arg Leu Cys Val Gln Met Ala Ala Gly Ser Trp Ala Gly Gly Phe
                   150
                                       155
Gly Ile Ser Met Val Lys Val Phe Leu Ile Ser Gly Leu Ser Tyr Cys
                                    170
                165
                                                       175
Gly Pro Asn Ile Ile Asn His Phe Phe Cys Asp Val Ser Pro Leu Leu
           180
                                185
Asn Leu Ser Cys Thr Asp Met Ser Thr Ala Glu Leu Thr Asp Phe Ile
                            200
                                                205
Leu Ala Ile Phe Ile Leu Leu Gly Pro Leu Ser Val Thr Gly Ala Ser
                        215
                                            220
Tyr Val Ala Ile Thr Gly Ala Val Met His Thr Ser Ser Ala Ala Gly
225
                    230
                                        235
Arg Tyr Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Val Val Ile
                245
                                    250
Ile Phe Tyr Ala Ala Ser Ile Phe Ile Tyr Ala Arg Pro Lys Ala Leu
            260
                                265
                                                    270
Ser Ala Phe Asp Thr Asn Lys Leu Val Ser Val Leu Tyr Ala Val Ile
                            280
                                                285
Val Pro Leu Leu Asn Pro Ile Ile Tyr Cys Leu Arg Asn Gln Glu Val
                        295
                                            300
Lys Arg Ala Leu Cys Cys Thr Leu His Leu Tyr Gln His Gln Asp Pro
                   310
                                        315
Asp Pro Lys Lys Ala Ser Arg
                325
<210> 1365
<211> 333
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- <212> PRT
- <213> Unknown (H38g282 protein)
- <220>
- <223> Synthetic construct
- <221> VARIANT
- <222> (1)...(333)
- <223> Xaa = Any Amino Acid

# <400> 1365

Met Asp Gly Glu Asn His Ser Val Val Ser Glu Phe Leu Phe Leu Gly 10 Leu Thr His Ser Trp Glu Ile Gln Leu Leu Leu Leu Val Phe Ser Ser 25 Val Leu Tyr Val Ala Ser Ile Thr Gly Asn Ile Leu Ile Val Phe Ser 35 40 Val Thr Thr Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Val 55 60 Ser Leu Ser Phe Ile Asp Leu Gly Ala Cys Ser Val Thr Ser Pro Lys 70 75 Met Ile Tyr Asp Leu Phe Arg Lys Arg Lys Val Ile Ser Phe Gly Gly 90 Cys Ile Ala Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met 105 Val Leu Leu Ile Ala Met Ala Phe Asp Ser Tyr Val Ala Leu Cys Lys 115 120 125 Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Ser Phe 135 140 Leu Ala Val Ala Trp Thr Leu Val Val Ser His Ser Leu Phe Gln Leu 150 155 Ala Phe Leu Val Asn Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Ser 165 170 175 Phe Tyr Cys Asp Leu Pro Gln Leu Leu Arg Leu Ala Cys Thr Asp Thr

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180
                                185
                                                    190
Tyr Arg Leu Gln Phe Met Val Thr Val Asn Ser Gly Phe Ile Cys Val
                           200
                                                205
Gly Thr Phe Phe Ile Leu Leu Ile Ser Tyr Val Phe Ile Leu Phe Thr
                       215
                                            220
Val Trp Lys His Ser Ser Gly Gly Ser Ser Lys Ala Leu Ser Thr Leu
                    230
                                        235
Ser Ala His Ser Thr Ala Val Leu Leu Phe Phe Gly Pro Pro Met Phe
                245
                                    250
Val Tyr Thr Trp Pro His Pro Asn Ser Gln Met Asp Lys Phe Leu Ala
                                265
Ile Phe Asp Ala Val Leu Thr Pro Phe Leu Asn Pro Val Val Tyr Thr
                            280
                                                285
Phe Arg Asn Lys Glu Met Lys Ala Ala Ile Lys Arg Val Cys Lys Gln
                        295
Leu Val Ile Tyr Lys Lys Ile Ser Xaa Met Ile Gln Xaa Ala Leu Leu
                    310
Val Lys His Asp Met Ala Leu Cys Phe Phe Leu Xaa Tyr
                325
```

<210> 1366

<211> 280

<212> PRT

<213> Unknown (H38g283 protein)

<220>

<223> Synthetic construct

<400> 1366

Met Leu Cly Asn Leu Ala Ile Ile Ser Phe Ile Cys Leu Asp Ser 10 Arg Leu His Ser Pro Met Tyr Phe Phe Leu Cys Asn Phe Ser Leu Met 20 25 Glu Met Val Val Thr Ser Thr Val Val His Arg Met Leu Ala Asp Leu 40 45 Leu Ser Thr His Lys Thr Met Ser Leu Ala Lys Cys Leu Thr Gln Ser Phe Phe Tyr Phe Ser Leu Gly Ser Ala Asn Phe Leu Ile Leu Met Val 70 75 Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Pro 85 90 Thr Ile Thr Asn Gly Pro Val Cys Val Lys Leu Val Val Ala Cys Trp 105 Val Val Gly Phe Leu Ser Ile Val Ser Pro Thr Leu Gln Lys Thr Arg 120 125 Leu Trp Phe Cys Gly Pro Asn Ile Ile Gly His Tyr Phe Cys Asp Ser 135 140 Ala Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr Arg His Ile Glu Arg 155 Met Asp Leu Phe Leu Ser Leu Leu Phe Val Leu Thr Thr Met Leu Leu 170 Ile Ile Leu Ser Tyr Ile Leu Ile Val Ala Ala Val Leu His Ile Pro 185 Ser Ser Ser Gly Cys Gln Lys Ala Phe Ser Thr Cys Ala Ser His Leu 200 Thr Val Val Val Leu Gly Tyr Gly Ser Ala Ile Phe Ile Tyr Val Arg 215 220 Pro Gly Lys Gly His Ser Thr Tyr Leu Asn Lys Ala Val Ala Met Val 230 235 Thr Ala Met Val Thr Pro Phe Leu Asn Pro Phe Ile Phe Thr Phe Arg 250

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Asn Glu Lys Val Lys Glu Val Ile Glu Asp Val Thr Lys Arg Ile Phe
             260
                          265
 Leu Gly Asp Pro Ala Ala Cys Arg
        275
 <210> 1367
 <211> 313
 <212> PRT
 <213> Unknown (H38g284 protein)
 <220>
 <223> Synthetic construct
 <400> 1367
 Met Glu Thr Ala Asn Tyr Thr Lys Val Thr Glu Phe Val Leu Thr Gly
 1
             5
                                   10
 Leu Ser Gln Thr Pro Glu Val Gln Leu Val Leu Phe Val Ile Phe Leu
            20
                                25
 Ser Phe Tyr Leu Phe Ile Leu Pro Gly Asn Ile Leu Ile Ile Cys Thr
                            40
                                                 45
 Ile Ser Leu Asp Pro His Leu Thr Ser Pro Met Tyr Phe Leu Leu Ala
                        55
Asn Leu Ala Phe Leu Asp Ile Trp Tyr Ser Ser Ile Thr Ala Pro Glu
                    70
                                        75
Met Leu Ile Asp Phe Phe Val Glu Arg Lys Ile Ile Ser Phe Asp Gly
                                    90
Cys Ile Ala Gln Leu Phe Phe Leu His Phe Ala Gly Ala Ser Glu Met
                                105
Phe Leu Leu Thr Val Met Ala Phe Asp Leu Tyr Thr Ala Ile Cys Arg
                            120 .
Pro Leu His Tyr Ala Thr Ile Met Asn Gln Arg Leu Cys Cys Ile Leu
                        135
                                            140
Val Ala Leu Ser Trp Arg Gly Gly Phe Ile His Ser Ile Ile Gln Val
                    150
                                        155
Ala Leu Ile Val Arg Leu Pro Phe Cys Gly Pro Asn Glu Leu Asp Ser
                                    170
Tyr Phe Cys Asp Ile Thr Gln Val Val Arg Ile Ala Cys Ala Asn Thr
           180
                                185
Phe Pro Glu Glu Leu Val Met Ile Cys Ser Ser Gly Leu Ile Ser Val
                            200
                                                205
Val Trp Leu Ile Ala Leu Leu Met Ser Tyr Ala Phe Leu Leu Ala Leu
                        215
                                            220
Phe Lys Lys Leu Ser Gly Ser Gly Glu Asn Thr Asn Arg Ala Met Ser
                   230
                                        235
Thr Cys Tyr Ser His Ile Thr Ile Val Val Leu Met Phe Gly Pro Ser
                245
                                   250
Ile Tyr Ile Tyr Ala Arg Pro Phe Asp Ser Phe Ser Leu Asp Lys Val
            260
                                265
                                                    270
Val Ser Val Phe Asn Thr Leu Ile Phe Pro Leu Arg Asn Pro Ile Ile
                            280
                                                285
Tyr Thr Leu Arg Asn Lys Glu Val Lys Ala Ala Met Arg Lys Leu Val
                        295
Thr Lys Tyr Ile Leu Cys Lys Glu Lys
                    310
<210> 1368
<211> 214
<212> PRT
<213> Unknown (H38g285 protein)
<220>
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<223> Synthetic construct
<221> VARIANT
<222> (1)...(214)
<223> Xaa = Any Amino Acid
<400> 1368
Cys Leu Leu Xaa Leu Tyr Gln Val Cys Leu Leu Thr Arg Asp Pro Ile
                                    10
Leu Gln Asp Leu His Xaa Lys Pro Arg Ile Tyr Cys Ser Pro Cys Leu
Xaa Val Tyr Ser Leu Gly Leu Asp Arg Xaa Xaa Val Phe Leu Thr Met
Thr Gln Ser Val Leu Trp Asn Glu Pro Val Cys Phe Met Phe Ser Xaa
                        55
                                            60
Met Pro Phe Cys Leu Ser Xaa Ile Leu Pro Xaa Thr Tyr Tyr Glu Gln
                    70
                                        75
Val Val Met Leu Asn Leu Val Cys Ala Asp Ile Thr Tyr Ile Val His
               85 .
                                    90
Thr Cys Gly Leu Phe Met Ala Phe Ser Val Asp Gly Phe Asp Ile Phe
                                105
            100
                                                    110
Gly Ile Ile Ile His Arg Tyr Gln Thr Leu Gln Ala Val Leu Xaa Leu
                            120
                                                125
Pro Ala Lys Glu Ser Val Pro Lys Val Phe Ser Ile Tyr Ala Phe His
                        135
                                            140
Ile Cys Val Thr Leu Tyr Leu Leu Met Ile Gly Phe Tyr Ser Phe Phe
                    150
                                        155
Ser Cys Cys Phe Ser Tyr His Thr Leu Thr Val Ile Pro Ile Ser Phe
                165
                                    170
Ser Ser Phe Tyr Ser Leu Val Pro Ser Met Phe Asn Thr Ile Thr Cys
                                185
            180
Gly Val Lys Ser Lys His Ile Gln Glu Asn Met Val Gln Arg Phe Cys
                            200
        195
Gly Lys Ile Ser Cys His
    210
<210> 1369
<211> 330
<212> PRT
<213> Unknown (H38g286 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(330)
<223> Xaa = Any Amino Acid
<400> 1369
Met Cys Leu Leu Thr Leu Gln Val Thr Gly Pro Met Asn Val Ser Glu
                                    10
Pro Asn Ser Ser Phe Ala Leu Val Asn Glu Phe Ile Leu Gln Asp Leu
                                25
Ser Phe Glu Trp Thr Ile Gln Ile Phe Leu Phe Ser Leu Phe Thr Thr
Thr Tyr Ala Leu Thr Ile Thr Gly Asn Gly Ala Ile Ala Cys Ala Leu
                        55
Trp Cys Asp Arg Arg Arg His Thr Pro Met Tyr Met Phe Leu Gly Asn
                   70
                                        75
Phe Ser Phe Leu Glu Ile Trp Tyr Val Ser Ser Thr Val Pro Lys Met
```

```
Leu Val Asn Phe Leu Ser Glu Lys Lys Thr Ile Ser Phe Ala Gly Cys
                               105
Phe Leu Gln Phe Tyr Phe Phe Phe Ser Leu Gly Thr Ser Glu Cys Leu
                                               125
                           120
Ile Leu Thr Val Met Ala Phe Asp Gln Tyr Leu Val Ile Cys His Pro
                                           140
                       135
Leu His Tyr Pro Asn Ile Ile Met Thr Gly His Leu Cys Ala Lys Leu
                                       155
                  150
Val Ile Leu Cys Trp Val Cys Gly Phe Leu Trp Phe Leu Ile Pro Thr
                                   170
               165
Val Leu Ile Ser Gln Met Pro Phe Cys Gly Pro Asn Ile Asn Asp His
                               185
           180
Val Val Cys Asp Pro Gly Pro Leu Phe Ala Leu Ala Cys Val Ser Ala
                                               205
                           200
Pro Arg Ile Gln Leu Phe Cys Tyr Thr Leu Ser Ser Leu Val Ile Phe
                                           220
                       215
Gly Asn Phe Leu Phe Ile Ile Gly Ser Tyr Thr Leu Val Leu Lys Ala
                230
                                       235
Val Leu Gly Met Pro Ser Ser Thr Gly Lys His Lys Ala Phe Ser Thr
                                   250
               245
Cys Gly Ser His Leu Ala Val Val Ser Leu Phe Tyr Gly Ser Leu Met
                                                    270
                               265
Val Met Cys Val Ser Pro Gly Leu Gly His Ser Met Gly Met Gln Lys
                           280
       275
Ile Lys Thr Leu Phe Tyr Ala Met Val Thr Pro Leu Phe Asn Pro Leu
                                           300
                       295
Ile Tyr Ser Leu Gln Asn Lys Glu Ile Lys Ala Ala Leu Arg Lys Val
                                      315
                   310
Leu Gly Ser Ser Asn Ile Ile Xaa Ala Ile
               325
<210> 1370
<211> .310
<212> PRT
<213> Unknown (H38g287 protein)
<220>
<223> Synthetic construct
<400> 1370
Met Met Asp Asn His Ser Ser Ala Thr Glu Phe His Leu Leu Gly Phe
                                   10
                5
Pro Gly Ser Gln Gly Leu His His Ile Leu Phe Ala Ile Phe Phe Phe
                               25
          20
Phe Tyr Leu Val Thr Leu Met Gly Asn Thr Val Ile Ile Val Ile Val
                           40
Cys Val Asp Lys Arg Leu Gln Ser Pro Met Tyr Phe Phe Leu Ser His
                       55
```

Phe Tyr Leu Val Thr Leu Met Gly Asn Thr Val Ile Ile Val Ile Val 35

Cys Val Asp Lys Arg Leu Gln Ser Pro Met Tyr Phe Phe Leu Ser His 50

Leu Ser Thr Leu Glu Ile Leu Val Thr Thr Ile Ile Val Pro Met Met 65

Leu Trp Gly Leu Leu Phe Leu Gly Cys Arg Gln Tyr Leu Ser Leu His 85

Val Ser Leu Asn Phe Ser Cys Gly Thr Met Glu Phe Ala Leu Leu Gly 100

Val Met Ala Val Asp Arg Tyr Val Ala Val Cys Asn Pro Leu Arg Tyr 115

Asn Ile Ile Met Asn Ser Ser Thr Cys Ile Trp Val Val Ile Val Ser Lau Thr Phe

Gln Phe Thr Phe Arg Lys Ser Asn Ser Leu Asp His Phe Tyr Cys Asp

150

```
165
                                    170
Arg Gly Gln Leu Leu Lys Leu Ser Cys Asp Asn Thr Leu Leu Thr Glu
                               185
Phe Ile Leu Phe Leu Met Ala Val Phe Ile Leu Ile Gly Ser Leu Ile
                            200
                                                205
Pro Thr Ile Val Ser Tyr Thr Tyr Ile Ile Ser Thr Ile Leu Lys Ile
                       215
                                           220
Pro Ser Ala Ser Gly Arg Arg Lys Ala Phe Ser Thr Phe Ala Ser His
                    230
                                       235
Phe Thr Cys Val Val Ile Gly Tyr Gly Ser Cys Leu Phe Leu Tyr Val
                245
                                    250
Lys Pro Lys Gln Thr Gln Gly Val Glu Tyr Asn Lys Ile Val Ser Leu
            260
                               265
Leu Val Ser Val Leu Thr Pro Phe Leu Asn Pro Phe Ile Phe Thr Leu
                           280
                                                285
Arg Asn Asp Lys Val Lys Glu Ala Leu Arg Asp Gly Met Lys Arg Cys
                       295
Cys Gln Leu Leu Lys Asp
<210> 1371
<211> 305
<212> PRT
<213> Unknown (H38g288 protein)
<220>
<223> Synthetic construct
<400> 1371
Met Ser Asn Thr Asn Gly Ser Ala Ile Thr Glu Phe Ile Leu Leu Gly
                                    10
Leu Thr Asp Cys Pro Glu Leu Gln Ser Leu Leu Phe Val Leu Phe Leu
         20
                                25
Val Val Tyr Leu Val Thr Leu Leu Gly Asn Leu Gly Met Ile Met Leu
                            40
Met Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Thr
                        55
                                           60
Asn Leu Ala Phe Val Asp Leu Cys Tyr Thr Ser Asn Ala Thr Pro Gln
                    70
                                       75
Met Ser Thr Asn Ile Val Ser Glu Lys Thr Ile Ser Phe Ala Gly Cys
                                    90
Phe Thr Gln Cys Tyr Ile Phe Ile Ala Leu Leu Leu Thr Glu Phe Tyr
                                105
Met Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Tyr Asp Pro
                            120
Leu Arg Tyr Ser Val Lys Thr Ser Arg Arg Val Cys Ile Cys Leu Ala
                        135
                                            140
Thr Phe Pro Tyr Val Tyr Gly Phe Ser Asp Gly Leu Phe Gln Ala Ile
                   150
                                       155
Leu Thr Phe Arg Leu Thr Phe Cys Arg Ser Ser Val Ile Asn His Phe
               165
                                   170
Tyr Cys Ala Asp Pro Pro Leu Ile Lys Leu Ser Cys Ser Asp Thr Tyr
           180
                               185
Val Lys Glu His Ala Met Phe Ile Ser Ala Gly Phe Asn Leu Ser Ser
                           200
Ser Leu Thr Ile Val Leu Val Ser Tyr Ala Phe Ile Leu Ala Ala Ile
                       215
                                           220
Leu Arg Ile Lys Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr Cys
                   230
                                       235
Gly Ser His Met Met Ala Val Thr Leu Phe Tyr Gly Thr Leu Phe Cys
                                    250
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Met Tyr Ile Arg Pro Pro Thr Asp Lys Thr Val Glu Glu Ser Lys Ile
                               265
            260
Ile Ala Val Phe Tyr Thr Phe Val Ser Pro Val Leu Asn Pro Leu Ile
        275
                           280
                                               285
Tyr Ser Leu Arg Asn Lys Asp Val Lys Gln Ala Leu Lys Asn Val Leu
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Arq
305
<210> 1372
<211> 313
<212> PRT
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<223> Synthetic construct
<400> 1372
Met Ala Asn Leu Ser Gln Pro Ser Glu Phe Val Leu Leu Gly Phe Ser
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Ser Phe Gly Glu Leu Gln Ala Leu Leu Tyr Gly Pro Phe Leu Met Leu
                              25
Tyr Leu Leu Ala Phe Met Gly Asn Thr Ile Ile Ile Val Met Val Ile
                           40
Ala Asp Thr His Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn Phe
                       55
Ser Leu Leu Glu Ile Leu Val Thr Met Thr Ala Val Pro Arg Met Leu
                                       75
                   70
Ser Asp Leu Leu Val Pro His Lys Val Ile Thr Phe Thr Gly Cys Met
                                   90
               85
Val Gln Phe Tyr Phe His Phe Ser Leu Gly Ser Thr Ser Phe Leu Ile
                               105
           100
Leu Thr Asp Met Ala Leu Asp Arg Phe Val Ala Ile Cys His Pro Leu
                                               125
                          120
Arg Tyr Gly Thr Leu Met Ser Arg Ala Met Cys Val Gln Leu Ala Gly
                                           140
                       135
Ala Ala Trp Ala Ala Pro Phe Leu Ala Met Val Pro Thr Val Leu Ser
                                       155
                   150
Arg Ala His Leu Asp Tyr Cys His Gly Asp Val Ile Asn His Phe Phe
                                   170
               165
Cys Asp Asn Glu Pro Leu Leu Gln Leu Ser Cys Ser Asp Thr Arg Leu
                               185
           180
Leu Glu Phe Trp Asp Phe Leu Met Ala Leu Thr Phe Val Leu Ser Ser
                           200
                                               205
Phe Leu Val Thr Leu Ile Ser Tyr Gly Tyr Ile Val Thr Thr Val Leu
                                           220
                       215
Arg Ile Pro Ser Ala Ser Ser Cys Gln Lys Ala Phe Ser Thr Cys Gly
                                       235
                   230
Ser His Leu Thr Leu Val Phe Ile Gly Tyr Ser Ser Thr Ile Phe Leu
                                   250
               245
Tyr Val Arg Pro Gly Lys Ala His Ser Val Gln Val Arg Lys Val Val
                               265
                                                    270
            260
Ala Leu Val Thr Ser Val Leu Thr Pro Phe Leu Asn Pro Phe Ile Leu
                                               285
                           280
Thr Phe Cys Asn Gln Thr Val Lys Thr Val Leu Gln Gly Gln Met Gln
                       295
Arg Leu Lys Gly Leu Cys Lys Ala Gln
                    310
<210> 1373
<211> 316
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<212> PRT
<213> Unknown (H38g290 protein)
<220>
<223> Synthetic construct
<400> 1373
Met Lys Ile Ala Asn Asn Thr Val Val Thr Glu Phe Ile Leu Leu Gly
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Leu Thr Gln Ser Gln Asp Ile Gln Leu Leu Val Phe Val Leu Ile Leu
           20
                               25
Ile Phe Tyr Leu Ile Ile Leu Pro Gly Asn Phe Leu Ile Ile Phe Thr
                           40
Ile Arg Ser Asp Pro Gly Leu Thr Ala Pro Leu Tyr Leu Phe Leu Gly
                                           60
Asn Leu Ala Phe Leu Asp Ala Ser Tyr Ser Phe Ile Val Ala Pro Arg
                   70
                                       75
Met Leu Val Asp Phe Leu Ser Glu Lys Lys Val Ile Ser Tyr Arg Gly
                                   90
               85
Cys Ile Thr Gln Leu Phe Phe Leu His Phe Leu Gly Gly Gly Glu Gly
                               105
                                                   110
           100
Leu Leu Leu Val Val Met Ala Phe Asp Arg Tyr Ile Ala Ile Cys Arg
                           120
Pro Leu His Cys Ser Thr Val Met Asn Pro Arg Ala Cys Tyr Ala Met
                       135
                                           140
Met Leu Ala Leu Trp Leu Gly Gly Phe Val His Ser Ile Ile Gln Val
                                       155
                   150
Val Leu Ile Leu Arg Leu Pro Phe Cys Gly Pro Asn Gln Leu Asp Asn
                                    170
Phe Phe Cys Asp Val Arg Gln Val Ile Lys Leu Ala Cys Thr Asp Met
            180
                               185
Phe Val Val Glu Leu Leu Met Val Phe Asn Ser Gly Leu Met Thr Leu
                           200
        195
Leu Cys Phe Leu Gly Leu Leu Ala Ser Tyr Ala Val Ile Leu Cys His
                       215
                                           220
Val Arg Arg Ala Ala Ser Glu Gly Lys Asn Lys Ala Met Ser Thr Cys
                   230
                                       235
Thr Thr Arg Val Ile Ile Ile Leu Leu Met Phe Gly Pro Ala Ile Phe
               245
                                   250
Ile Tyr Met Cys Pro Phe Arg Ala Leu Pro Ala Asp Lys Met Val Ser
                               265
                                                   270
           260
Leu Phe His Thr Val Ile Phe Pro Leu Met Asn Pro Met Ile Tyr Thr
                                               285
                          280 -
Leu Arg Asn Gln Glu Val Lys Thr Ser Met Lys Arg Leu Leu Ser Arg
                       295
His Val-Val Cys Gln Val Asp Phe Ile Ile Arg Asn
                   310
<210> 1374
<211> 345
<212> PRT
<213> Unknown (H38g291 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(345)
<223> Xaa = Any Amino Acid
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<400> 1374

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Met His Leu Pro Asn Ser Ser Glu Ile Ala Ile Thr Thr Phe Phe Leu
Ile Gly Ile Pro Gly Leu Glu His Ala His Ile Trp Ile Ser Val Pro
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Ile Cys Leu Met Tyr Leu Val Ala Ile Leu Gly Asn Cys Thr Ile Leu
                                             45
                          40
Phe Val Ile Arg Thr Glu Pro Ser Leu His Ala Pro Met Tyr Tyr Phe
                      55
Leu Ser Met Leu Ala Val Ser Asp Leu Gly Leu Ser Leu Ser Tyr Leu
                  70
Pro Thr Met Leu Arg Ile Phe Val Phe Asn Ala Thr Gly Ile Ser Ser
                                  90
              85
Asn Ala Arg Phe Ala Gln Glu Phe Phe Ile His Gly Phe Thr Asp Met
                              105
           100
Glu Ser Ser Val Leu Leu Val Met Ser Phe Asp Arg Phe Leu Ala Ile
                                             125
                          120
Cys His Pro Leu Arg Tyr Ile Ser Glu Val Leu Val Ser Cys Ile Leu
                   135
                                         140
Thr Ser Ala Arg Val Ala Lys Met Gly Leu Leu Phe Leu Ile Lys Arg
                                     155
                  150
Glu Thr Thr Leu Asn Ser Leu Lys Glu Thr Thr Asn Ser Val Leu Leu
                                                    175
                                 170
              165
Val Leu Pro Phe Pro Phe Thr Leu Thr Arg Leu Thr Tyr Cys Arg Lys
                             185
                                                 190
      180
Ser Leu Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Arg Lys Leu
                                              205
    195
                          200
Ala Cys Ser Asp Asn Thr Val Asn Phe Phe Tyr Gly Phe Phe Leu Ala
                                          220
                      215
Leu Cys Met Met Ser Glu Ser Val Phe Ile Thr Val Ser Tyr Val Leu
                                      235
225 230
Ile Leu Lys Thr Ile Met Gly Ile Gly Ser His Arg Glu Arg Leu Lys
                                  250
Ala Leu Asn Thr Cys Val Ser His Ile Cys Ala Val Leu Ile Phe Tyr
                                                 270
                              265
Ala Pro Val Ile Ala Leu Ala Ser Met His Cys Phe Ala Ser Met Asn
                                              285
                         280
Cys Phe Gly Lys His Arg Ser Pro Leu Ala Met Ile Leu Ile Ala Asp
                      295
                                          300
Val Phe Leu Leu Val Pro Pro Leu Met Asn Pro Ile Val Tyr Cys Val
                                   315
                   310
Lys Thr Gln Gln Ile His Glu Lys Val Leu Gly Lys Leu Gly Leu Gln
              325
                                  330
Gln Arg Cys Gln Xaa Thr Trp Tyr Lys
<210> 1375
<211> 238
<212> PRT
<213> Unknown (H38g292 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(238)
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<400> 1375

<223> Xaa = Any Amino Acid

Pro Leu Ile Xaa Pro Asp Pro Phe Ile Phe Thr Gln Leu Cys Ser Phe

1 5 10 15

Leu Asn Lys Tyr Val Ala Ser Thr Arg Leu Asn Asp His Asn Ile Asp

```
25
Gln Ala Pro Xaa Ser Arg Ser Ile Ile Leu Asn Leu Cys Leu Ile Ser
                            40
Phe Gly Ile Lys Gly Met Trp Ser Asn Val Asn Ser Cys Phe Leu Ser
Ser Leu Pro Arg Glu Lys Glu Leu Gly Leu Lys Ser Glu Gly Asn Tyr
Ser Ser Ala Thr Gln Phe Cys Leu Leu Gly Phe Pro Gly Phe Glu Glu
                                   90
Leu Pro His Phe Leu Leu Val Asn Phe Phe Phe His Leu Met Arg Leu
                               105
Met Gly Asn Ala Val Ile Tyr Met Val Arg Ile Asp Xaa Ser Leu Gln
                                                125
                           120
Ser Pro Gly Asp Phe Phe Leu Ser Gln Leu Phe Ile Phe Ser His Ser
                        135
                                           140
Leu Leu Met Asp Ile Ser Ile Val Ile Ala Ser Leu Ile Gln Ile Asp
                    150
                                        155
Ser Tyr Ser Ser Ile Pro Ser Ala Ser Gly Gln Lys Lys Ser Phe Ser
               165
                                    170
Thr His Ala Ser His Phe Thr Cys Val Gly Ile Asp Tyr Asp Ser Cys
                                185
            180
Leu Phe Leu Tyr Val Lys Pro Lys Gln Ile Trp Ala Ala Glu Xaa Asn
                            200
Lys Val Val Phe Leu Phe Ile Phe Leu Leu Thr Pro Phe Leu Asn Leu
                        215
                                            220
Leu Thr Gly Gln Ile Tyr Xaa Pro Lys Ser Val Leu Gly Gly
                    230
<210> 1376
<211> 311
<212> PRT
<213> Unknown (H38g293 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(311)
<223> Xaa = Any Amino Acid
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Pro Met Lys Val Ala Asn Asn Val Thr Glu Phe Ile Phe Leu Gly Leu
                                    10
Ser Gln Asp Ser Gly Met Gln Leu Met Phe Phe Val Leu Phe Leu Leu
Phe Tyr Val Val Ile Met Val Gly Asn Leu Leu Ile Leu Leu Met Val
                            40
Phe Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn
                        55
Leu Ser Phe Val Asp Ile Ala Cys Ser Ser Ala Thr Ala Pro Lys Met
                   70
Ile Glu Asp Phe Val Ser Glu Lys Lys Thr Ile Ser Tyr Trp Gly Cys
                                    90
               85
Ile Thr Gln Met Phe Thr Phe His Phe Gly Cys Ala Glu Ile Phe
                               105
```

155

140

Val Leu Thr Val Met Ala Phe Asp Arg Tyr Ala Ala Ile Cys Gln Pro 115 120 125 Leu Arg Tyr Thr Val Ile Met Ser Ala Asn Ala Tyr Thr Val Leu Ala

Ser Leu Ser Trp Leu Gly Ala Leu Gly His Ser Phe Val Gln Thr Leu

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```
Leu Thr Phe Gln Leu Pro Phe Cys Asn Ala Gln Val Ile Asp His Tyr
                                   170
               165
Phe Cys Asp Val His Pro Val Leu Lys Leu Ala Cys Ala Asp Thr Thr
           180
                               185
                                                   190
Leu Val Asn Met Leu Val Val Ala Asn Ser Gly Leu Ile Ser Leu Gly
                                              205
                          200
Cys Phe Leu Ile Leu Leu Ala Ser Tyr Thr Val Ile Leu Phe Ser Leu
                                           220
                      215
Gln Lys Gln Ser Ala Glu Ser Xaa His Lys Val Leu Ser Thr Cys Gly
                                       235
                   230
Ser His Leu Thr Ile Val Thr Phe Phe Phe Val Pro Cys Ile Phe Ile
                                   250
               245
Tyr Arg Pro Ser Thr Thr Phe Pro Leu Asp Lys Ala Val Ser Val Phe
                              265
           260
Tyr Thr Thr Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
                                              285
                   280
       275
Asn Glu Glu Val Lys Asn Ala Met Arg Arg Leu Trp Ser Ser Lys Ile
                295
Ser Leu Lys Glu Lys Gln Arg
<210> 1377
<211> 323
<212> PRT
<213> Unknown (H38g294 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(323)
<223> Xaa = Any Amino Acid
<400> 1377
Met Glu Ile Leu Ser Asn Ser Thr Ser Lys Phe Pro Thr Phe Leu Leu
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Thr Gly Ile Pro Gly Leu Glu Ser Ala His Val Trp Ile Ser Ile Pro
                               25
                                                   30
           20
Phe Cys Cys Phe Tyr Ala Ile Ala Leu Ser Gly Asn Ser Val Ile Leu
                                               45
                           40
Phe Val Ile Ile Thr Gln Gln Ser Leu His Glu Pro Met Tyr Tyr Phe
                                           60
                      55
Leu Ser Met Leu Ser Ala Thr Asp Leu Gly Leu Thr Val Ser Ser Leu
                                       75
                   70
Ser Thr Thr Leu Gly Ile Leu Trp Phe Glu Ala Arg Glu Ile Ser Leu
                                  90
               85
Tyr Ser Cys Ile Val Gln Met Phe Phe Leu His Gly Phe Thr Phe Met
                               105
                                                   110
           100
Glu Ser Gly Val Leu Val Ala Thr Ala Phe Asp Arg Tyr Val Ala Ile
                                               125
       115
                           120
Cys Asp Pro Leu Arg Tyr Thr Thr Ile Leu Thr Asn Ser Arg Ile Ile
                       135
                                           140
Gln Met Gly Leu Leu Met Ile Thr Arg Ala Ile Val Leu Ile Leu Pro
                                       155
                   150
Leu Leu Leu Leu Lys Pro Leu Tyr Phe Cys Arg Met Asn Ala Leu
               165
                                   170
Ser His Ser Tyr Cys Tyr His Pro Asp Val Ile Gln Leu Ala Cys Ser
                                                  190
                               185
Asp Ile Arg Ala Asn Ser Ile Cys Gly Leu Ile Asp Leu Ile Leu Thr
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200 Thr Gly Ile Asp Thr Pro Cys Ile Val Leu Ser Tyr Ile Leu Ile Ile

```
220
    210
                       215
Arg Phe Val Leu Arg Ile Ala Ser Pro Glu Glu Trp His Lys Val Phe
                   230
                                       235
Ser Thr Cys Val Ser His Val Gly Ala Val Ala Phe Phe Tyr Ile His
                                   250
               245
Met Leu Ser Leu Ser Leu Val Tyr Arg Tyr Gly Arg Ser Ala Pro Arg
            260
                               265
Val Val His Ser Val Met Ala Asn Val Tyr Leu Leu Pro Pro Val
                           280
Leu Asn Pro Ile Ile Tyr Ser Val Lys Thr Lys Gln Ile Arg Lys Ala
                                           300
                      295
Met Leu Ser Leu Leu Thr Lys Xaa Thr Asp Ile Val Leu Phe Asp
                   310
Thr Asn Leu
<210> 1378
<211> 321
<212> PRT
<213> Unknown (H38g295 protein)
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- <220>
- <223> Synthetic construct
- <221> VARIANT
- <222> (1)...(321)
- <223> Xaa = Any Amino Acid

245

His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu 10 . Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Ile Leu Ala Leu Leu Ser 25 Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser 40 Ile Leu Ala Val Cys Ser Asp Ser Pro Leu His Thr Pro Arg Tyr Phe 55 Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr 70 75 Val Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Thr Ser 85 90 His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys 100 105 Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala 120 Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys 135 140 Val Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu 150 155 His Ser Trp Ile Val Leu Gln Phe Thr Ile Val Xaa Asn Leu Glu Ile 170 165 Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys Ser 185 190 Asp Ser Val Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe 200 205 Gly Phe Leu Pro Ile Ser Gly Ile Leu Trp Ser Tyr Tyr Lys Ile Ile 220 215 Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe 235 230 Ser Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Tyr Gly Thr

```
Gly Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Gln Pro Pro Arg Asn 260 265 270

Gly Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu Asn 280 285

Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asn Ile Gln Ser Ala Leu Trp 290 295 300

Arg Leu His Ser Arg Thr Val Glu Ser His Asp Leu Phe His Pro Phe 305

Ser <210> 1379
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<210> 1379 <211> 325 <212> PRT <213> Unknown (H38g296 protein)

<220>
<223> Synthetic construct

<400> 1379 Met Ala Ile Phe Asn Asn Thr Thr Ser Ser Ser Ser Asn Phe Leu Leu 5 10 Thr Ala Phe Pro Gly Leu Glu Cys Ala His Val Trp Ile Ser Ile Pro 25 Val Cys Cys Leu Tyr Thr Ile Ala Leu Leu Gly Asn Ser Met Ile Phe 45 35 40 Leu Val Ile Ile Thr Lys Arg Arg Leu His Lys Pro Met Tyr Tyr Phe 55 Leu Ser Met Leu Ala Ala Val Asp Leu Cys Leu Thr Ile Thr Thr Leu 70 75 Pro Thr Val Leu Gly Val Leu Trp Phe His Ala Arg Glu Ile Ser Phe 90 85 Lys Ala Cys Phe Ile Gln Met Phe Phe Val His Ala Phe Ser Leu Leu 100 105 Glu Ser Ser Val Leu Val Ala Met Ala Phe Asp Arg Phe Val Ala Ile 120 125 Cys Asn Pro Leu Asn Tyr Ala Thr Ile Leu Thr Asp Arg Met Val Leu 140 135 Val Ile Gly Leu Val Ile Cys Ile Arg Pro Ala Val Phe Leu Leu Pro 150 155 Leu Leu Val Ala Ile Asn Thr Val Ser Phe His Gly Gly His Glu Leu 175 170 Ser His Pro Phe Cys Tyr His Pro Glu Val Ile Lys Tyr Thr Tyr Ser 185 190 180 Lys Pro Trp Ile Ser Ser Phe Trp Gly Leu Phe Leu Gln Leu Tyr Leu 205 200 195 Asn Gly Thr Asp Val Leu Phe Ile Leu Phe Ser Tyr Val Leu Ile Leu 215 220 Arg Thr Val Leu Gly Ile Val Ala Arg Lys Lys Gln Gln Lys Ala Leu 235 230 Ser Thr Cys Val Cys His Ile Cys Ala Val Thr Ile Phe Tyr Val Pro 250 245 Leu Ile Ser Leu Ser Leu Ala His Arg Leu Phe His Ser Thr Pro Arg 265 Val Leu Cys Ser Thr Leu Ala Asn Ile Tyr Leu Leu Leu Pro Pro Val 280 285 Leu Asn Pro Ile Ile Tyr Ser Leu Lys Thr Lys Thr Ile Arg Gln Ala 295 300

Met Phe Gln Leu Leu Gln Ser Lys Gly Ser Trp Gly Phe Asn Val Arg

310

Gly Leu Arg Gly Arg

325

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<210> 1380
<211> 315
<212> PRT
<213> Unknown (H38g297 protein)
<220>
<223> Synthetic construct
<400> 1380
Met Glu Thr Trp Val Asn Gln Ser Tyr Thr Asp Gly Phe Phe Leu Leu
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Gly Ile Phe Ser His Ser Thr Ala Asp Leu Val Leu Phe Ser Val Val
                              25
           20
Met Ala Val Phe Thr Val Ala Leu Cys Gly Asn Val Leu Leu Ile Phe
                          40
                                              45
Leu Ile Tyr Met Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu
                                          60
                      55
Ser Gln Leu Ser Leu Met Asp Leu Met Leu Val Cys Thr Asn Val Pro
                  70
                                      75
Lys Met Ala Ala Asn Phe Leu Ser Gly Arg Lys Ser Ile Ser Phe Val
                                  90
               85
Gly Cys Gly Ile Gln Ile Gly Leu Phe Val Cys Leu Val Gly Ser Glu
                              105
           100
Gly Leu Leu Cly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Ser
                                              125
                           120
His Pro Leu His Tyr Pro Ile Leu Met Asn Gln Arg Val Cys Leu Gln
                                          140
                       135
Ile Thr Gly Ser Ser Trp Ala Phe Gly Ile Ile Asp Gly Leu Ile Gln
                                      155
                   150
Met Val Val Wat Asn Phe Pro Tyr Cys Gly Leu Arg Lys Val Asn
               165
                                  170
His Phe Phe Cys Glu Met Leu Ser Leu Leu Lys Leu Ala Cys Val Asp
                              185
           180
Thr Ser Leu Phe Glu Lys Val Ile Phe Ala Cys Cys Val Phe Met Leu
                          200
                                              205
Leu Phe Pro Phe Ser Ile Ile Val Ala Ser Tyr Ala Arg Ile Leu Gly
                      215
                                          220
Thr Val Leu Gln Met His Ser Ala Gln Ala Trp Lys Lys Ala Leu Ala
                                      235
                  230
Thr Cys Ser Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Ala Ala
                                  250
              245
Met Phe Ile Tyr Leu Arg Pro Arg His Tyr Arg Ala Pro Ser His Asp
                              265
                                                  270
           260
Lys Val Ala Ser Ile Phe Tyr Thr Val Leu Thr Pro Met Leu Asn Pro
       275
                          280
Leu Ile Tyr Ser Leu Arg Asn Arg Glu Val Met Gly Ala Leu Arg Lys
                      295
Gly Leu Asp Arg Cys Arg Ile Gly Ser Gln His
                  310
<210> 1381
<211> 323
<212> PRT
<213> Unknown (H38g298 protein)
<223> Synthetic construct
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<221> VARIANT

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<222> (1)...(323) <223> Xaa = Any Amino Acid <400> 1381 Met Ser Pro Leu Asn Gln Thr Thr Glu Asn His Gln Ser Phe Phe Thr 5 10 Leu Thr Gly Ile Pro Gly Met Pro Glu Lys Asp Leu Trp Met Ala Leu 25 20 Pro Leu Cys Leu Leu Tyr Ser Thr Thr Ile Leu Gly Asn Val Thr Ile 40 Leu Val Val Ile Lys Val Glu Gln Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ala Met Leu Ala Ala Thr Asp Leu Ser Leu Ser Leu Ser Ser 70 75 Met Pro Thr Met Val Ser Val His Trp Phe Asn Trp Arg Ser Ile Thr 90 85 Phe Asn Gly Cys Leu Ile Gln Met Phe Phe Ile His Thr Phe Gly Gly 105 100 Val Glu Ser Gly Val Leu Val Ala Met Ala Phe Asp Arg Phe Val Ala 120 125 Ile Arg Phe Pro Leu His Tyr Ala Thr Ile Leu Thr His Ser Val Ile 135 140 Ser Lys Ile Ala Ala Ala Ile Leu Leu Arg Ser Val Gly Ala Val Leu 150 155 Pro Val Pro Phe Leu Ile Lys Arg Leu Pro Phe Cys His Ser Asn Val 170 165 Leu Ser His Ala Tyr Cys Leu His Gln Asp Ala Met Arg Leu Ala Cys 185 Ala Asp Thr Gly Val Asn Ser Ile Tyr Gly Leu Leu Ala Val Ile Phe 200 Ile Ile Val Leu Asp Ala Leu Ile Leu Leu Ala Ser Tyr Ile Leu Ile 215 220 Leu Gln Ala Val Leu Ser Ile Ala Ser Gln Glu Asp Arg Leu Lys Ala 230 235 Leu Asn Thr Cys Leu Ser His Met Ser Ala Val Leu Leu Phe Tyr Val 250 245 Pro Leu Ile Gly Met Thr Leu Ile His Arg Tyr Gly Lys His Leu Ser 265 270 260 Pro Leu Ile His Thr Phe Met Ala Asn Ile Tyr Leu Leu Pro Pro 285 280 Val Leu Asn Pro Ile Val Tyr Ser Val Arg Thr Lys Gln Ile Xaa Xaa 295 300 Gln Ile Val Gln Ala Phe Cys Gly Ala Arg Val Ser Pro Xaa Trp His 315 Leu Leu Phe <210> 1382 <211> 312 <212> PRT <213> Unknown (H38g299 protein) <220> <223> Synthetic construct <400> 1382 Met Ser Val Leu Asn Asn Ser Glu Val Lys Leu Phe Leu Leu Ile Gly

10

Ile Pro Gly Leu Glu His Ala His Ile Trp Phe Ser Ile Pro Ile Cys 25

Leu Met Tyr Leu Leu Ala Ile Met Gly Asn Cys Thr Ile Leu Phe Ile

5

```
40
Ile Lys Thr Glu Pro Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ala
                       55
                                           60
Met Leu Ala Val Ser Asp Met Gly Leu Ser Leu Ser Ser Leu Pro Thr
                    70
                                       75
Met Leu Arg Val Phe Leu Phe Asn Ala Met Gly Ile Ser Pro Asn Ala
                                   90
               85
Cys Phe Ala Gln Glu Phe Phe Ile His Gly Phe Thr Val Met Glu Ser
                               105
           100
Ser Val Leu Leu Ile Met Ser Leu Asp Arg Phe Leu Ala Ile His Asn
                                                125
                           120
Pro Leu Arg Tyr Ser Ser Ile Leu Thr Ser Asn Arg Val Ala Lys Met
                       135
                                           140
Gly Leu Ile Leu Ala Ile Arg Ser Ile Leu Leu Val Ile Pro Phe Pro
                   150
                                        155
Phe Thr Leu Arg Arg Leu Lys Tyr Cys Gln Lys Asn Leu Leu Ser His
                                    170
                165
Ser Tyr Cys Leu His Gln Asp Thr Met Lys Leu Ala Cys Ser Asp Asn
                                185
Lys Thr Asn Val Ile Tyr Gly Phe Phe Ile Ala Leu Cys Thr Met Leu
                            200
                                                205
Asp Leu Ala Leu Ile Val Leu Ser Tyr Val Leu Ile Leu Lys Thr Ile
                        215
                                            220
Leu Ser Ile Ala Ser Leu Ala Glu Arg Leu Lys Ala Leu Asn Thr Cys
                                        235
                    230
Val Ser His Ile Cys Ala Val Leu Thr Phe Tyr Val Pro Ile Ile Thr
                                    250
                245
Leu Ala Ala Met His His Phe Ala Lys His Lys Ser Pro Leu Val Val
                                265
            260
Ile Leu Ile Ala Asp Met Phe Leu Leu Val Pro Pro Leu Met Asn Pro
                            280
Ile Val Tyr Cys Val Lys Thr Arg Gln Ile Trp Glu Lys Ile Leu Gly
                       295
Lys Leu Leu Asn Val Cys Gly Arg
                    310
<210> 1383
<211> 308
<212> PRT
<213> Unknown (H38g300 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1) ... (308)
<223> Xaa = Any Amino Acid
<400> 1383
Met Lys Ile Asn Asp Ser Ser Gly Glu Asp Phe Ile Leu Val Gly Phe
                                   10
Ser Glu Tyr Pro Gln Ala Glu Phe Ile Leu Ser Leu Phe Val Ser Gly
                               25
Phe Tyr Thr Met Thr Phe Thr Gly Asn Thr Ala Ile Ile Leu Val Ser
                            40
Leu Leu Asp Tyr Arg Leu Arg Thr Pro Met Tyr Phe Phe Leu Arg Lys
Leu Ser Phe Leu Asp Met Cys Phe Thr Thr Cys Ile Val Leu Gln Met
                                       75
                   70
Leu Val Asn Ile Trp Gly Glu Ser Lys Lys Val Ser Tyr Val Gly Cys
                                    90
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```
Met Val Gln Tyr Ser Val Ala Leu Ala Leu Gly Ser Thr Glu Cys Val
            100
                                105
Leu Leu Ala Ile Met Ala Val Asp Arg Tyr Val Ala Val Arg Trp Pro
                            120
Leu His Tyr Val Thr Ile Met His Gln Gln Ile Cys His Phe Leu Ala
                                            140
                       135
Ala Leu Ser Trp Phe Ser Gly Leu Ala Asn Ser Leu Phe His Ser Ser
                                        155
                   150
Leu Thr Thr Ile Leu Pro Leu Cys Gly His Arg Arg Val Asp His Phe
                                                        175
                                   170
                165
Phe Cys Glu Val Leu Leu Ile Val Lys Leu Ser Cys Val Asp Thr Gly
           180
                               185
Pro Thr Glu Leu Lys Met Leu Ile Ala Arg Val Ile Ile Leu Ala Leu
                                                205
                            200
Pro Val Cys Thr Ile Leu Thr Ser Tyr Ala Cys Ile Ala Arg Ala Val
                        215
                                            220
Leu Arg Leu Gln Ser Ala Glu Gly Gln Gln Lys Ala Phe Gly Thr Cys
                                       235
                    230
Ala Ser His Leu Met Val Val Leu Leu Phe Tyr Gly Thr Ile Met Phe
                                   250
                245
Met Cys Leu Gln Leu Lys Ser Asn Tyr Ser Gln Ile Gln Gly Lys Leu
                               265
           260
Leu Pro Leu Val Tyr Thr Ile Ala Ala Pro Thr Xaa Asn Pro Leu Ile
                                                285
                           280
Tyr Ala Leu Arg Asn Lys Val Val Lys Arg Ala Ile Gly Lys Leu Ile
                       295
Trp Lys Asp Ser
305
<210> 1384
<211> 317
<212> PRT
<213> Unknown (H38g301 protein)
<220>
<223> Synthetic construct
<400> 1384
Met Glu Ile Asp Asn Gln Thr Trp Val Arg Glu Phe Ile Leu Leu Gly
Leu Ser Ser Asp Trp Cys Thr Gln Ile Ser Leu Phe Ser Leu Phe Leu
            20
                                25
Val Thr Tyr Leu Met Thr Val Leu Gly Asn Cys Leu Ile Val Leu Leu
                           40
        35
Ile Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Thr
                       55
                                            60
Asn Leu Ser Leu Val Asp Val Ser Tyr Ala Thr Ser Val Val Pro Gln
                                        75
                   70
Leu Leu Ala His Phe Leu Ala Glu His Lys Ala Ile Pro Phe Gln Ser
                                    90
                85
Cys Ala Ala Gln Leu Phe Phe Ser Leu Ala Leu Gly Gly Ile Glu Phe
                                                    110
                                105
Val Leu Leu Ala Val Met Ala Tyr Asp Arg His Val Ala Val Ser Asp
                            120
                                                125
Arg Leu Arg Tyr Ser Ala Ile Met His Gly Gly Leu Cys Ala Arg Leu
                                            140
                        135
Ala Ile Thr Ser Trp Val Ser Gly Ser Ile Asn Ser Leu Val Gln Thr
                    150
                                        155
Ala Ile Thr Phe Gln Leu Pro Met Cys Thr Asn Lys Phe Ile Asp His
                                    170
Ile Ser Cys Glu Leu Leu Ala Val Val Arg Leu Ala Cys Val Asp Thr
```

```
185
Ser Ser Asn Glu Ala Ala Ile Met Val Ser Ser Ile Val Leu Leu Met
                            200
                                               205
Thr Pro Phe Cys Leu Val Leu Leu Ser Tyr Ile Arg Ile Ile Ser Thr
                                           220
                       215
Ile Leu Lys Ile Gln Ser Arg Glu Gly Arg Lys Lys Ala Phe His Thr
                   230
                                       235
Cys Ala Ser His Leu Thr Val Val Ala Leu Cys Tyr Gly Thr Thr Ile
                                   250
               245
Phe Thr Tyr Ile Gln Pro His Ser Gly Pro Ser Val Leu Gln Glu Lys
           260
                               265
Leu Ile Ser Val Phe Tyr Ala Ile Val Met Pro Leu Leu Asn Pro Val
                                               285
                           280
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala Trp His Lys Leu
                       295
                                           300
Leu Glu Lys Phe Ser Gly Leu Thr Ser Lys Leu Gly Thr
                   310
<210> 1385
<211> 306
<212> PRT
<213> Unknown (H38g302 protein)
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Met Glu Gly Lys Asn Gln Thr Asn Ile Ser Glu Phe Leu Leu Gly
                                    10
Phe Ser Ser Trp Gln Gln Gln Val Leu Leu Phe Ala Leu Phe Leu
           20
                                25
Cys Leu Tyr Leu Thr Gly Leu Phe Gly Asn Leu Leu Ile Leu Leu Ala
       35
                            40
Ile Gly Ser Asp His Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ala
                      · 55 ·
Asn Leu Ser Leu Val Asp Leu Cys Leu Pro Ser Ala Thr Val Pro Lys
                                        75
Met Leu Leu Asn Ile Gln Thr Gln Thr Gln Thr Ile Ser Tyr Pro Gly
                                    90
Cys Leu Ala Gln Met Tyr Phe Cys Met Met Phe Ala Asn Met Asp Asn
                               105
           100
Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
                           120
                                               125
Pro Leu His Tyr Ser Thr Ile Met Ala Leu Arg Leu Cys Ala Ser Leu
                       135
                                           140
Val Ala Ala Pro Trp Val Ile Ala Ile Leu Asn Pro Leu Leu His Thr
                   150
                                       155
Leu Met Met Ala His Leu His Phe Cys Ser Asp Asn Val Ile His His
                                   170
               165
Phe Phe Cys Asp Ile Asn Ser Leu Leu Pro Leu Ser Cys Ser Asp Thr
                               185
           180
Ser Leu Asn Gln Leu Ser Val Leu Ala Thr Val Gly Leu Ile Phe Val
                           200
                                                205
Val Pro Ser Val Cys Ile Leu Val Ser Tyr Ile Leu Ile Val Ser Ala
                       215
                                           220
Val Met Lys Val Pro Ser Ala Gln Gly Lys Leu Lys Ala Phe Ser Thr
                                       235
                   230
Cys Gly Ser His Leu Ala Leu Val Ile Leu Phe Tyr Gly Ala Asn Thr
               245
                                   250
Gly Val Tyr Met Ser Pro Leu Ser Asn His Ser Thr Glu Lys Asp Ser
                               265
           260
```

```
Ala Ala Ser Val Ile Phe Met Val Val Ala Pro Val Leu Asn Pro Phe
                          280
       275
Ile Tyr Ser Leu Arg Asn Asn Glu Leu Lys Gly Thr Leu Lys Lys Thr
                      295
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Leu Ser
305
<210> 1386
<211> 311
<212> PRT
<213> Unknown (H38g303 protein)
<223> Synthetic construct
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Met Gly Pro Arg Asn Gln Thr Ala Val Ser Glu Phe Leu Leu Met Lys
                           10
Val Thr Glu Asp Pro Glu Leu Lys Leu Ile Pro Phe Ser Leu Phe Leu
                              25
Ser Met Tyr Leu Val Thr Ile Leu Gly Asn Leu Leu Ile Leu Leu Ala
       35
                  40
                                           45
Val Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Leu Leu Phe
                  55
                                          60
Asn Leu Ser Phe Thr Asp Ile Cys Leu Thr Thr Thr Thr Val Pro Lys
                                      75
                  70
Ile Leu Val Asn Ile Gln Ala Gln Asn Gln Ser Ile Thr Tyr Thr Gly
                                  90
               85
Cys Leu Thr Gln Ile Cys Leu Val Leu Val Phe Ala Gly Leu Glu Ser
                              105
Cys Phe Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
                          120
                                             125
Pro Leu Arg Tyr Thr Val Leu Met Asn Val His Phe Trp Gly Leu Leu
                                          140
                      135
Ile Leu Leu Ser Met Phe Met Ser Thr Met Asp Ala Leu Val Gln Ser
                  150
                                      155
Leu Met Val Leu Gln Leu Ser Phe Cys Lys Asn Val Glu Ile Pro Leu
                                  170
               165
Phe Phe Cys Glu Val Val Gln Val Ile Lys Leu Ala Cys Ser Asp Thr
                              185
          180
Leu Ile Asn Asn Ile Leu Ile Tyr Phe Ala Ser Ser Val Phe Gly Ala
                          200
                                              205
      195
Ile Pro Leu Ser Gly Ile Ile Phe Ser Tyr Ser Gln Ile Val Thr Ser
                                      220
                      215
Val Leu Arg Met Pro Ser Ala Arg Gly Lys Tyr Lys Ala Phe Ser Thr
                                      235
                 230
Cys Gly Cys His Leu Ser Val Phe Ser Leu Phe Tyr Gly Thr Ala Phe
               245
                                  250
Gly Val Tyr Ile Ser Ser Ala Val Ala Glu Ser Ser Arg Ile Thr Ala
                                                  270
                              265
           260
Val Ala Ser Val Met Tyr Thr Val Val Pro Gln Met Met Asn Pro Phe
                          280
                                              285
       275
Ile Tyr Ser Leu Arg Asn Lys Glu Met Lys Lys Ala Leu Arg Lys Leu
                      295
Ile Gly Arg Leu Phe Pro Phe
<210> 1387
<211> 313
<212> PRT
<213> Unknown (H38g304 protein)
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<220> <223> Synthetic construct <400> 1387 Met Glu Ala Arg Asn Gln Thr Ala Ile Ser Lys Phe Leu Leu Gly 10 Leu Ile Glu Asp Pro Glu Leu Gln Pro Val Leu Phe Ser Leu Phe Leu 25 Ser Met Tyr Leu Val Thr Ile Leu Gly Asn Leu Leu Ile Leu Leu Ala 40 Val Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser 60 Asn Leu Ser Phe Leu Asp Ile Cys Leu Ser Thr Thr Thr Ile Pro Lys 70 75 Met Leu Val Asn Ile Gln Ala Gln Asn Arg Ser Ile Thr Tyr Ser Gly 90 Cys Leu Thr Gln Ile Cys Phe Val Leu Phe Phe Ala Gly Leu Glu Asn 105 100 Cys Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His 120 125 Pro Leu Arg Tyr Thr Val Ile Met Asn Pro Arg Leu Cys Gly Leu Leu 135 140 Ile Leu Leu Ser Leu Leu Thr Ser Val Val Asn Ala Leu Leu Ser 150 155 Leu Met Val Leu Arg Leu Ser Phe Cys Thr Asp Leu Glu Ile Pro Leu 170 Phe Phe Cys Glu Leu Ala Gln Val Ile Gln Leu Thr Cys Ser Asp Thr 185 Leu Ile Asn Asn Ile Leu Ile Tyr Phe Ala Ala Cys Ile Phe Gly Gly 200 Val Pro Leu Ser Gly Ile Ile Leu Ser Tyr Thr Gln Ile Thr Ser Cys 215 220 Val Leu Arg Met Pro Ser Ala Ser Gly Lys His Lys Ala Val Ser Thr 230 235 Cys Gly Ser His Leu Ser Ile Val Leu Leu Phe Tyr Gly Ala Gly Leu 250 Gly Val Tyr Ile Ser Ser Val Val Thr Asp Ser Pro Arg Lys Ala Ala 265 Val Ala Ser Val Met Tyr Ser Val Phe Pro Gln Met Val Asn Pro Phe 280 285 Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Gly Thr Leu Arg Lys Phe 295 Ile Gly Arg Ile Pro Ser Leu Leu Trp 310 <210> 1388 <211> 313 <212> PRT <213> Unknown (H38g305 protein) <220> <223> Synthetic construct <400> 1388 Met Glu Pro Arg Asn Gln Thr Ser Ala Ser Gln Phe Ile Leu Leu Gly 10 Leu Ser Glu Lys Pro Glu Gln Glu Thr Leu Leu Phe Ser Leu Phe Phe 20 25 Cys Met Tyr Leu Val Met Val Val Gly Asn Leu Leu Ile Ile Leu Ala 40

```
. Ile Ser Ile Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ala
                         55
                                             60
 Asn Leu Ser Leu Val Asp Phe Cys Leu Ala Thr Asn Thr Ile Pro Lys
                     70
 Met Leu Val Ser Leu Gln Thr Gly Ser Lys Ala Ile Ser Tyr Pro Cys
                 85
                                     90
 Cys Leu Ile Gln Met Tyr Phe Phe His Phe Phe Gly Ile Val Asp Ser
             100
                                 105
 Val Ile Ile Ala Met Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His
                             120
                                                 125
 Pro Leu His Tyr Ala Lys Ile Met Ser Leu Arg Leu Cys Arg Leu Leu
                         135
                                            140
 Val Gly Ala Leu Trp Ala Phe Ser Cys Phe Ile Ser Leu Thr His Ile
                    150
                                         155
 Leu Leu Met Ala Arg Leu Val Phe Cys Gly Ser His Glu Val Pro His
                                     170
                                                         175
 Tyr Phe Cys Asp Leu Thr Pro Ile Leu Arg Leu Ser Cys Thr Asp Thr
            180
                                 185
 Ser Val Asn Arg Ile Phe Ile Leu Ile Val Ala Gly Met Val Ile Ala
        195
                             200
 Thr Pro Phe Val Cys Ile Leu Ala Ser Tyr Ala Arg Ile Leu Val Ala
                        215
                                            220
Ile Met Lys Val Pro Ser Ala Gly Gly Arg Lys Lys Ala Phe Ser Thr
                    230
                                        235
Cys Ser Ser His Leu Ser Val Val Ala Leu Phe Tyr Gly Thr Thr Ile
                245
                                     250
Gly Val Tyr Leu Cys Pro Ser Ser Val Leu Thr Thr Val Lys Glu Lys
            260
                                265
                                                    270
Ala Ser Ala Val Met Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe
                            280
                                                 285
Ile Tyr Ser Leu Arg Asn Arg Asp Leu Lys Gly Ala Leu Arg Lys Leu
                        295
Val Asn Arg Lys Ile Thr Ser Ser Ser
                    310
<210> 1389
<211> 98
<212> PRT
<213> Unknown (H38g306 protein)
<220>
<223> Synthetic construct
<400> 1389
Met Ser Ala Ser Ser Ile Thr Ser Thr His Pro Thr Ser Phe Leu Leu
                                     10
Met Gly Ile Pro Gly Leu Glu His Leu His Ile Trp Ile Ser Ile Pro
            20
Phe Ser Ala Tyr Thr Leu Ala Leu Leu Gly Asn Cys Thr Leu Leu Leu
                            40
                                                 45
Ile Ile Gln Ala Asp Ala Ala Leu His Glu Pro Met Tyr Leu Phe Leu
                        55
Ala Met Leu Ala Ala Ile Asp Gln Leu Ser Ile Ser Ser Ala Leu Pro
                    70
                                        75
Pro Gly Gln Thr Val Phe Trp Phe Thr Asp Gln Lys Asn Lys Pro Phe
Ala Gly
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<210> 1390 <211> 320

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<212> PRT
<213> Unknown (H38g307 protein)
<223> Synthetic construct
<400> 1390
Met Pro Ser Ala Ser Ala Met Ile Ile Phe Asn Leu Ser Ser Tyr Asn
                                    10
Pro Gly Pro Phe Ile Leu Val Gly Ile Pro Gly Leu Glu Gln Phe His
            20
                                25
Val Trp Ile Gly Ile Pro Phe Cys Ile Ile Tyr Ile Val Ala Val Val
                            40
                                                45
Gly Asn Cys Ile Leu Leu Tyr Leu Ile Val Val Glu His Ser Leu His
                        55
Glu Pro Met Phe Phe Leu Ser Met Leu Ala Met Thr Asp Leu Ile
                    70
                                        75
Leu Ser Thr Ala Gly Val Pro Lys Ala Leu Ser Ile Phe Trp Leu Gly
                                    90
Ala Arg Glu Ile Thr Phe Pro Gly Cys Leu Thr Gln Met Phe Phe Leu
            100
                                105
His Tyr Asn Phe Val Leu Asp Ser Ala Ile Leu Met Ala Met Ala Phe
                           120
                                                125
Asp His Tyr Val Ala Ile Cys Ser Pro Leu Arg Tyr Thr Thr Ile Leu
                        135
                                            140
Thr Pro Lys Thr Ile Ile Lys Ser Ala Met Gly Ile Ser Phe Arg Ser
                    150
                                        155
Phe Cys Ile Ile Leu Pro Asp Val Phe Leu Leu Thr Cys Leu Pro Phe
                165
                                    170
Cys Arg Thr Arg Ile Ile Pro His Thr Tyr Cys Glu His Ile Gly Val
                                                    190
            180
                                185
Ala Gln Leu Ala Cys Ala Asp Ile Ser Ile Asn Phe Trp Tyr Gly Phe
                            200
                                                205
Cys Val Pro Ile Met Thr Val Ile Ser Asp Val Ile Leu Ile Ala Val
                        215
                                            220
Ser Tyr Ala His Ile Leu Cys Ala Val Phe Gly Leu Pro Ser Gln Glu
                   230
                                        235
Ala Cys Gln Lys Ala Leu Gly Thr Cys Gly Ser His Val Cys Val Ile
                                    250
                245
Leu Met Phe Tyr Thr Pro Ala Phe Phe Ser Ile Leu Ala His Arg Phe
                                265
Gly His Asn Val Ser Arg Thr Phe His Ile Met Phe Ala Asn Leu Tyr
        275
                            280
Ile Val Ile Pro Pro Ala Leu Asn Pro Met Val Tyr Gly Val Lys Thr
                        295
                                            300
Lys Gln Ile Arg Asp Lys Val Ile Leu Leu Phe Ser Lys Gly Thr Gly
                    310
                                        315
                                                            320
<210> 1391
<211> 312
<212> PRT
<213> Unknown (H38g308 protein)
<220>
<223> Synthetic construct
<400> 1391
Met Ser Gly Thr Asn Gln Ser Ser Val Ser Glu Phe Leu Leu Gly
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Leu Ser Arg Gln Pro Gln Gln Gln His Leu Leu Phe Val Phe Leu
            20
                                25
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Ser Met Tyr Leu Ala Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Ser
                           40
Val Ser Ile Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                                           60
                       55
Asn Leu Ser Phe Val Asp Ile Cys Phe Ser Phe Thr Thr Val Pro Lys
                   70
                                       75
Met Leu Ala Asn His Ile Leu Glu Thr Gln Thr Ile Ser Phe Cys Gly
                                   90
Cys Leu Thr Gln Met Tyr Phe Val Phe Met Phe Val Asp Met Asp Asn
                               105
Phe Leu Leu Ala Val Met Ala Tyr Asp His Phe Val Ala Val Cys His
                           120
Pro Leu His Tyr Thr Ala Lys Met Thr His Gln Leu Cys Ala Leu Leu
                                           140
                       135
Val Ala Gly Leu Trp Val Val Ala Asn Leu Asn Val Leu Leu His Thr
                   150
                                       155
Leu Leu Met Ala Pro Leu Ser Phe Cys Ala Asp Asn Ala Ile Thr His
                                  170
Phe Phe Cys Asp Val Thr Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr
                              185
                                                  190
           180
His Leu Asn Glu Val Ile Ile Leu Ser Glu Gly Ala Leu Val Met Ile
      195
                           200
                                               205
Thr Pro Phe Leu Cys Ile Leu Ala Ser Tyr Met His Ile Thr Cys Thr
                                           220
                       215
Val Leu Lys Val Pro Ser Thr Lys Gly Arg Trp Lys Ala Phe Ser Thr
                   230
                                       235
Cys Gly Ser His Leu Ala Val Val Leu Leu Phe Tyr Ser Thr Ile Ile
                                  250
              245
Ala Val Tyr Phe Asn Pro Leu Ser Ser His Ser Ala Glu Lys Asp Thr
                                                 270
                              265
Met Ala Thr Val Leu Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
                                              285
               280
       275
Ile Tyr Ser Leu Arg Asn Arg Tyr Leu Lys Gly Ala Leu Lys Lys Val
                      295 ·
Val Gly Arg Val Val Phe Ser Val
                   310
<210> 1392
<211> 254
<212> PRT
<213> Unknown (H38g309 protein)
<220>
<223> Synthetic construct
<400> 1392
Met Tyr Phe Phe Leu Arg Gln Leu Ser Val Val Glu Leu Phe Tyr Thr
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Thr Asp Ile Val Pro Arg Thr Leu Ala Asn Leu Gly Ser Pro His Pro
                               25
           20
Gln Ala Ile Ser Phe Gln Gly Cys Ala Ala His Met Tyr Val Phe Ile
                           40
Val Leu Gly Ile Ser Glu Cys Cys Leu Leu Thr Ala Met Ala Tyr Asp
                                          60
Arg Tyr Val Ala Ile Cys Gln Pro Leu Arg Tyr Ser Thr Leu Leu Ser
                                       75
                   70
Pro Arg Ala Cys Met Ala Met Val Gly Thr Ser Trp Leu Thr Gly Ile
                                   90
               85
Ile Thr Ala Thr Thr His Ala Ser Leu Ile Phe Ser Leu Pro Phe Arg
                               105
```

Ser His Pro Ile Ile Pro His Phe Leu Cys Asp Ile Leu Pro Val Leu

```
120
       115
Arg Leu Ala Ser Ala Gly Lys His Arg Ser Glu Ile Ser Val Met Thr
                                           140
                       135
Ala Thr Ile Val Phe Ile Met Ile Pro Phe Ser Leu Ile Val Thr Ser
                   150
                                       155
Tyr Ile Arg Ile Leu Gly Ala Ile Leu Ala Met Ala Ser Thr Gln Ser
                                    170
Arg Arg Lys Val Phe Ser Thr Cys Ser Ser His Leu Leu Val Val Ser
                               185
Leu Phe Phe Gly Thr Ala Ser Ile Thr Tyr Ile Arg Pro Gln Ala Gly
                           200
Ser Ser Val Thr Thr Asp Arg Val Leu Ser Leu Phe Tyr Thr Val Ile
                       215
Thr Pro Met Leu Asn Pro Ile Ile Tyr Thr Leu Arg Asn Lys Asp Val
                  230
                                       235
Arg Arg Ala Leu Arg His Leu Val Lys Arg Gln Arg Pro Ser
<210> 1393
<211> 333
<212> PRT
<213> Unknown (H38g310 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(333)
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Met Asp Gly Glu Asn His Ser Val Val Ser Glu Phe Leu Phe Leu Gly
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Leu Thr His Ser Trp Glu Ile Gln Leu Leu Leu Val Phe Ser Ser
                               25
Val Leu Tyr Val Ala Ser Ile Thr Gly Asn Ile Leu Ile Val Phe Ser
      35
                            40
Val Thr Thr Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Val
                       55
                                            60
Ser Leu Ser Phe Ile Asp Leu Gly Ala Cys Ser Val Thr Ser Pro Lys
                                        75
                   70
Met Ile Tyr Asp Leu Phe Arg Lys Arg Lys Val Ile Ser Phe Gly Gly
                                    90
Cys Ile Ala Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met
            100
                               105
Val Leu Leu Ile Ala Met Ala Phe Asp Ser Tyr Val Ala Leu Cys Lys
                                                125
                            120
Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Ser Phe
                                           140
                       135
Leu Ala Val Ala Trp Thr Leu Val Val Ser His Ser Leu Phe Gln Leu
                   150
                                       155
Ala Phe Leu Val Asn Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Ser
                                    170
                                                        175
               165
Phe Tyr Cys Asp Leu Pro Gln Leu Leu Arg Leu Ala Cys Thr Asp Thr
                                                    190
                                185
           180
Tyr Arg Leu Gln Phe Met Val Thr Val Asn Ser Gly Phe Ile Cys Val
                                                205
                            200
Gly Thr Phe Phe Ile Leu Leu Ile Ser Tyr Val Phe Ile Leu Phe Thr
                                           220
                        215
Val Trp Lys His Ser Ser Gly Gly Ser Ser Lys Ala Leu Ser Thr Leu
```

230

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Ser Ala His Ser Thr Ala Val Leu Leu Phe Phe Gly Pro Pro Met Phe
                245
                                    250
Val Tyr Thr Trp Pro His Pro Asn Ser Gln Met Asp Lys Phe Leu Ala
                                265
                                                    270
Ile Phe Asp Ala Val Leu Thr Pro Phe Leu Asn Pro Val Val Tyr Thr
       275
                            280
                                                285
Phe Arg Asn Lys Glu Met Lys Ala Ala Ile Lys Arg Val Cys Lys Gln
                        295
                                            300
Leu Val Ile Tyr Lys Lys Ile Ser Xaa Met Ile Gln Xaa Ala Leu Leu
                   310
Val Lys His Asp Met Ala Leu Cys Phe Phe Leu Xaa Tyr
               325
                                    330
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<210> 1394

<211> 311

<212> PRT

<213> Unknown (H38g311 protein)

:220>

<223> Synthetic construct

<400> 1394

Met Glu Glu Tyr Asn Thr Ser Ser Thr Asp Phe Thr Phe Met Gly Leu 10 Phe Asn Arg Lys Glu Thr Ser Gly Leu Ile Phe Ala Ile Ile Ser Ile 25 Ile Phe Phe Thr Ala Leu Met Ala Asn Gly Val Met Ile Phe Leu Ile 45 40 Gln Thr Asp Leu Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ser His 55 Leu Ser Leu Ile Asp Met Met Tyr Ile Ser Thr Ile Val Pro Lys Met 70 75 Leu Val Asn Tyr Leu Leu Asp Gln Arg Thr Ile Ser Phe Val Gly Cys 85 90 Thr Ala Gln His Phe Leu Tyr Leu Thr Leu Val Gly Ala Glu Phe Phe 105 100 Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro 125 120 Leu Arg Tyr Pro Val Leu Met Ser Arg Arg Val Cys Trp Met Ile Ile 135 140 Alá Gly Ser Trp Phe Gly Gly Ser Leu Asp Gly Phe Leu Leu Thr Pro 155 150 Ile Thr Met Ser Phe Pro Phe Cys Asn Ser Arg Glu Ile Asn His Phe 170 165 Phe Cys Glu Ala Pro Ala Val Leu Lys Leu Ala Cys Ala Asp Thr Ala 185 180 Leu Tyr Glu Thr Val Met Tyr Val Cys Cys Val Leu Met Leu Leu Ile 200 205 Pro Phe Ser Val Val Leu Ala Ser Tyr Ala Arg Ile Leu Thr Thr Val 215 220 Gln Cys Met Ser Ser Val Glu Gly Arg Lys Lys Ala Phe Ala Thr Cys 230 235 Ser Ser His Met Thr Val Val Ser Leu Phe Tyr Gly Ala Ala Met Tyr 245 250 Thr Tyr Met Leu Pro His Ser Tyr His Lys Pro Ala Gln Asp Lys Val 265 270 Leu Ser Val Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Leu Ile 280 285 Tyr Ser Leu Arg Asn Lys Asp Val Thr Gly Ala Leu Lys Arg Ala Leu 295 Gly Arg Phe Lys Gly Pro Gln

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305
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<210> 1395
<211> 295
<212> PRT
<213> Unknown (H38g312 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(295)
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<400> 1395
Ile Gln Cys Lys Gly Xaa Xaa Lys Xaa Ile Lys Thr Phe Ser Val Thr
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Pro Ile Leu Asn Gly Asn Arg Glu Ile Ala Arg Phe Leu Ser Asn Leu
Ser Leu Ala Gly Ile Gly Phe Pro Ser Thr Ile Val Ser Lys Met Ile
                           40
                                                45
Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys Leu
                                            60
                       55
Thr Gln Val Ser Leu Phe Ala Val Phe Gly Cys Met Glu Asp Met Leu
                   70
Leu Ser Val Met Ala Tyr Asp Arg Phe Val Asp Ile Cys His Pro Leu
                                    90
               85
Asp Tyr Pro Val Ile Met Asn Pro Cys Phe Cys Gly Phe Leu Val Leu
                                                    110
                               105
Leu Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Asn Trp Ile
                                               125
                           120
Ala Leu Gln Ile Thr Cys Phe Lys Asp Val Glu Ile Pro Asn Phe Phe
                                            140
                       135
Cys Asp Pro Ser Gln Leu Pro His Leu Ala Cys Cys Asp Thr Phe Thr
                   150
                                        155
Asn Asp Ile Val Met Tyr Phe Leu Ala Ala Ile Phe Gly Phe Leu Pro
                165
                                    170
Ile Ser Gly Thr Phe Phe Ser Tyr Tyr Lys Ile Val Ser Ser Ile Leu
                               185
            180
Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly
                           200
Ser His Leu Ser Val Val Cys Leu Phe Tyr Gly Thr Gly Phe Gly Gly
                       215
                                            220
Asp Leu Ser Ser Asp Met Ser Ser Tyr Pro Arg Lys Gly Ala Val Ala
                   230
                                       235
Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
                                   250
               245
Ser Arg Asn Arg Glu Ile Lys Ser Ala Leu Arg Gln Leu His Cys Arg
                               265
           260
Ile Val Xaa Ser His Phe Leu Ile Ile Cys Ser Ile Pro Ser Val Val
   . 275
                           280
Xaa Val Arg Lys Gly Ser Lys
                       295
   290
<210> 1396
<211> 314
<212> PRT
<213> Unknown (H38g313 protein)
<220>
<223> Synthetic construct
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<400> 1396
Met Thr Leu Gly Ser Leu Gly Asn Ser Ser Ser Ser Val Ser Ala Thr
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1
Phe Leu Leu Ser Gly Ile Pro Gly Leu Glu Arg Met His Ile Trp Ile
                                25
            20
Ser Ile Pro Leu Cys Phe Met Tyr Leu Val Ser Ile Pro Gly Asn Cys
                                                45
                            40
Thr Ile Leu Phe Ile Ile Lys Thr Glu Arg Ser Leu His Glu Pro Met
                        55
                                            60
Tyr Leu Phe Leu Ser Met Leu Ala Leu Ile Asp Leu Gly Leu Ser Leu
                                        75
                   70
Cys Thr Leu Pro Thr Val Leu Gly Ile Phe Trp Val Gly Ala Arg Glu
                                    90
               85
Ile Ser His Asp Ala Cys Phe Ala Gln Leu Phe Phe Ile His Cys Phe
                                105
                                                    110
            100
Ser Phe Leu Glu Ser Ser Val Leu Leu Ser Met Ala Phe Asp Arg Phe
                                                125
                            120
       115
Val Ala Ile Cys His Pro Leu His Tyr Val Ser Ile Leu Thr Asn Thr
                       135
                                            140
Val Ile Gly Arg Ile Gly Leu Val Ser Leu Gly Arg Ser Val Ala Leu
                                       155
                  150
Ile Phe Pro Leu Pro Phe Met Leu Lys Arg Phe Pro Tyr Cys Gly Ser
                                                       175
                                   170
               165
Pro Val Leu Ser His Ser Tyr Cys Leu His Gln Glu Val Met Lys Leu
                                                    190
                               185
           180
Ala Cys Ala Asp Met Lys Ala Asn Ser Ile Tyr Gly Met Phe Val Ile
                                                205
                            200
       195
Val Ser Thr Val Gly Ile Asp Ser Leu Leu Ile Leu Phe Ser Tyr Ala
                        215
                                            220
Leu Ile Leu Arg Thr Val Leu Ser Ile Ala Ser Arg Ala Glu Arg Phe
                                        235
                   230
Lys Ala Leu Asn Thr Cys Val Ser His Ile Cys Ala Val Leu Leu Phe
                                    250
                245
Tyr Thr Pro Met Ile Gly Leu Ser Val Ile His Arg Phe Gly Lys Gln
                                                   270
                               265
Ala Pro His Leu Val Gln Val Val Met Gly Phe Met Tyr Leu Leu Phe
                                                285
                            280
Pro Pro Val Met Asn Pro Ile Val Tyr Ser Val Lys Thr Lys Gln Ile
                                            300
                       295
Arg Asp Arg Val Thr His Ala Phe Cys Tyr
                   310
<210> 1397
<211> 330
<212> PRT
<213> Unknown (H38g314 protein)
<220>
<223> Synthetic construct
<400> 1397
Met Gly Leu Phe Arg Gln Ser Lys His Pro Met Ala Asn Ile Thr Trp
                                    10
1
Met Ala Asn His Thr Gly Trp Ser Asp Phe Ile Leu Leu Gly Leu Phe
            20
                                25
Arg Gln Ser Lys His Pro Ala Leu Leu Cys Val Val Ile Phe Val Val
                            40
       35
Phe Leu Met Ala Leu Ser Gly Asn Ala Val Leu Ile Leu Leu Ile His
Cys Asp Ala His Leu His Thr Pro Met Tyr Phe Phe Ile Ser Gln Leu
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```
70
                                        75
Ser Leu Met Asp Met Ala Tyr Ile Ser Val Thr Val Pro Lys Met Leu
                                    90
Leu Asp Gln Val Met Gly Val Asn Lys Ile Ser Ala Pro Glu Cys Gly
                               105
Met Gln Met Phe Phe Tyr Val Thr Leu Ala Gly Ser Glu Phe Phe Leu
                           120
                                                125
Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu
                       135
Arg Tyr Pro Val Leu Met Asn His Arg Val Cys Leu Phe Leu Ser Ser
                   150
                                       155
Gly Cys Trp Phe Leu Gly Ser Val Asp Gly Phe Thr Phe Thr Pro Ile
               165
                                   170
Thr Met Thr Phe Pro Phe Arg Gly Ser Arg Glu Ile His His Phe Phe
           180
                               185
Cys Glu Val Pro Ala Val Leu Asn Leu Ser Cys Ser Asp Thr Ser Leu
                           200
                                                205
Tyr Glu Ile Phe Met Tyr Leu Cys Cys Val Leu Met Leu Leu Ile Pro
                       215
                                           220
Val Val Ile Ile Ser Ser Ser Tyr Leu Leu Ile Leu Leu Thr Ile His
                   230
                                        235
Gly Met Asn Ser Ala Glu Gly Arg Lys Lys Ala Phe Ala Thr Cys Ser
               245
                                    250
Ser His Leu Thr Val Val Ile Leu Phe Tyr Gly Ala Ala Ile Tyr Thr
           260
                                                   270
                               265
Tyr Met Leu Pro Ser Ser Tyr His Thr Pro Glu Lys Asp Met Met Val
                           280
                                                285
Ser Val Phe Tyr Thr Ile Leu Thr Pro Val Val Asn Pro Leu Ile Tyr
                       295
                                           300
Ser Leu Arg Asn Lys Asp Val Met Gly Ala Leu Lys Lys Met Leu Thr
                  310
                                       315
Val Glu Pro Ala Phe Gln Lys Ala Met Glu
               325
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- <210> 1398
- <211> 197
- <212> PRT
- <213> Unknown (H38g315 protein)
- <220>
- <223> Synthetic construct
- <221> VARIANT
- <222> (1)...(197)
- <223> Xaa = Any Amino Acid
- <400> 1398
- Ala Ala Met Ala Xaa Asp Arg Tyr Ile Ala Ile Cys Asn Pro Leu Leu 1 5 10 15
- Tyr Thr Val Ile Met Ser Lys Lys Val Cys Cys Gln Leu Ala Ile Gly
  20 25 30
- Ala Phe Leu Gly Gly Thr Met Ser Ser Ile Ile His Thr Thr Asn Thr 35 40 45
- Phe His Leu Ser Phe Cys Ser Arg Asp Ile Asn His Phe Phe Cys Asp 50 55 60
- Ile Ser Pro Leu Phe Ser Leu Ser Cys Thr Asp Thr Tyr Met His Asp 65 70 75 80

  Ile Ile Leu Val Val Phe Ala Ser Phe Val Glu Ala Ile Cys Leu Leu
- 85 90 95 Ser Val Leu Leu Ser Tyr Val Phe Ile Met Ala Ala Ile Leu Arg Thr

Gly Ser Val Glu Gly Arg Arg Gly Phe Ser Thr Cys Ala Ser His 120 Leu Thr Val Val Thr Met Tyr His Gly Thr Leu Ile Phe Ile Tyr Leu 135 Arg Pro Ser Thr Gly His Ser Leu Asp Ile Asp Lys Val Thr Ser Val 150 155 Phe Tyr Thr Leu Ile Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu 165 170 Arg Asn Lys Asp Val Lys Asn Ala Phe Arg Lys Val Ile Gly Arg Lys 180 185 Leu Leu Pro Xaa Gly 195 <210> 1399 <211> 313 <212> PRT <213> Unknown (H38g316 protein) <223> Synthetic construct <400> 1399 Met Met Thr Leu Lys Asn Cys Thr Val Phe Thr Asp Phe Ile Phe Leu 10 Gly Leu Ser Gly Thr Gln Asp Ile Gln Gln Gly Leu Phe Val Leu Phe 25 Phe Leu Ile Tyr Gly Ile Thr Val Ile Val Asn Leu Gly Met Ile Leu 40 45 Leu Ile Lys Met Asp Leu Arg Leu His Thr Pro Val Tyr Tyr Phe Leu 55 60 Ser Asn Leu Ser Phe Cys Asp Val Cys Tyr Ser Ser Ser Val Ser Pro 70 75 Arg Met Leu Ala Asp Phe Leu Ser Asp Gln Lys Trp Ile Pro Tyr Asn 90 Leu Cys Ala Ile Gln Met Tyr Leu Phe Gly Val Phe Ala Asp Val Glu 100 105 110 Cys Leu Met Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys 120 125 Asn Pro Leu Leu Tyr Thr Ile Thr Met Pro Arg Arg Ile Cys Thr Gln 135 Leu Val Ala Leu Ala Tyr Val Val Gly Leu Val Asp Ser Ala Ile His 150 155 Thr Cys Cys Thr Phe Arg Leu Ser Phe Cys Asn Ser Asn Val Ile Asn 170 165 His Phe Phe Cys Asp Ile Pro Pro Leu Leu Ala Leu Asn Pro Thr Ile 180 185 190 Asn Ser Ile Asn Glu Ile Val Met Phe Thr Phe Val Gly Cys Val Ala 200 Gly Cys Ser Ile Val Thr Val Phe Leu Ser Tyr Ser Tyr Ile Ile Ile 215 220 Thr Ile Leu Lys Met Ser Ser Ala Glu Gly Arg Arg Lys Ala Phe Ser 230 235 Thr Cys Thr Ser His Leu Met Ala Val Ala Val Phe His Gly Thr Leu 245 250 Leu Phe Met Tyr Phe Arg Pro Ser Ser Ser Tyr Ser Met Glu Thr Asp 260 265 Lys Met Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro 280 285

300

Leu Ile Tyr Ser Leu Arg Asn Arg Asp Val Lys Gly Ala Leu Lys Lys

295

Ala Ile Ser Thr Lys Leu Tyr Ser Val

310

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<210> 1400
<211> 323
<212> PRT
<213> Unknown (H38g317 protein)
<220>
<223> Synthetic construct
<400> 1400
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Ala Pro Thr Phe Leu Leu Val Gly Met Pro Gly Leu Ser Gly Ala Pro
                                25
Ser Trp Trp Thr Leu Pro Leu Ile Ala Val Tyr Leu Leu Ser Ala Leu
                            40
Gly Asn Gly Thr Ile Leu Trp Ile Ile Ala Leu Gln Pro Ala Leu His
                        55
Arg Pro Met His Phe Phe Leu Phe Leu Leu Ser Val Ser Asp Ile Gly
                    70
                                        75
Leu Val Thr Ala Leu Met Pro Thr Leu Leu Gly Ile Ala Leu Ala Gly
Ala His Thr Val Pro Ala Ser Ala Cys Leu Leu Gln Met Val Phe Ile
            100
                                105
His Val Phe Ser Val Met Glu Ser Ser Val Leu Leu Ala Met Ser Ile
                            120
                                                125
Asp Arg Ala Leu Ala Ile Cys Arg Pro Leu His Tyr Pro Ala Leu Leu
                       135
                                            140
Thr Asn Gly Val Ile Ser Lys Ile Ser Leu Ala Ile Ser Phe Arg Cys
                   150
                                        155
Leu Gly Leu His Leu Pro Leu Pro Phe Leu Leu Ala Tyr Met Pro Tyr
                165
                                   170
Cys Leu Pro Gln Val Leu Thr His Ser Tyr Cys Leu His Pro Asp Val
            180
                                185
                                                    190
Ala Arg Leu Ala Cys Pro Glu Ala Trp Gly Ala Ala Tyr Ser Leu Phe
                            200
                                                205
Val Val Leu Ser Ala Met Gly Leu Asp Pro Leu Leu Ile Phe Phe Ser
                        215
                                            220
Tyr Gly Leu Ile Gly Lys Val Leu Gln Gly Val Glu Ser Arg Glu Asp
                    230
                                        235
Arg Trp Lys Ala Gly Gln Thr Cys Ala Ala His Leu Ser Ala Val Leu
                245
                                    250
Leu Phe Tyr Ile Pro Met Ile Leu Leu Ala Leu Ile Asn His Pro Glu
                                265
                                                    270
Leu Pro Ile Thr Gln His Thr His Thr Leu Leu Ser Tyr Val His Phe
                            280
                                                285
Leu Leu Pro Pro Leu Ile Asn Pro Ile Leu Tyr Ser Val Lys Met Lys
                        295
                                           300
Glu Ile Arg Lys Arg Ile Leu Asn Arg Leu Gln Pro Arg Lys Val Gly
                   310
                                        315
Gly Ala Gln
<210> 1401
<211> 128
<212> PRT
<213> Unknown (H38g318 protein)
<220>
<223> Synthetic construct
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<221> VARIANT
<222> (1)...(128)
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Gly Phe Ile Glu Leu Ser Thr Ile Ser Gly Val Phe Ile Ser Tyr Cys
                               25
           20
Tyr Ile Ile Leu Ser Val Leu Glu Ile His Ser Ala Glu Gly Arg Phe
                            40
Lys Ala Leu Ser Thr Cys Thr Ser His Leu Ser Ala Val Ala Ile Phe
                                            60
                        55
Gln Gly Thr Leu Leu Phe Met Tyr Phe Arg Pro Ser Ser Ser Tyr Ser
                                        75
                    70
Leu Asp Gln Asp Lys Met Thr Ser Leu Phe Tyr Thr Leu Val Val Pro
                                   90
               85
Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu
                              105
Ala Leu Lys Lys Leu Lys Asn Lys Ile Leu Phe Xaa Gly Asn Ser Lys
<210> 1402
<211> 316
<212> PRT
<213> Unknown (H38g319 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(316)
<223> Xaa = Any Amino Acid
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                5
Ile Gly Ile Pro Gly Leu Glu His Ala His Ile Trp Ile Ser Ile Pro
                                                   30
                                25
Ile Cys Leu Met Tyr Leu Met Ala Ile Leu Gly Asn Cys Thr Ile Leu
                            40
Phe Val Ile Arg Thr Glu His Ser Leu Gln Glu Pro Met Tyr Tyr Phe
                       55
Leu Ser Met Leu Ala Leu Ser Asp Leu Gly Leu Ser Phe Ser Ser Leu
                                        75
                   70
Pro Thr Met Leu Arg Ile Phe Leu Phe Asn Asn Met Gly Ile Ser Ala
                                   90
               85
Asp Thr Cys Ile Ala Gln Glu Phe Phe Ile His Gly Phe Thr Asp Met
                               105
Glu Ser Ser Val Leu Leu Ile Met Ser Phe Asp His Leu Val Ala Ile
                                                125
                            120
Cys Asn Pro Leu Arg Tyr Ser Ser Ile Leu Thr Ser Phe Arg Val Leu
                                            140
                        135
Gln Ile Gly Leu Ala Phe Ala Ile Lys Ser Ile Leu Leu Val Leu Pro
                                        155
                    150
Pro Phe Thr Leu Lys Arg Leu Arg Tyr Cys Asn Lys His Leu Leu Ser
                                   170
His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Ser Asp
                                                    190
                               185
Asn Arg Val Asn Phe Tyr Tyr Gly Leu Phe Val Ala Leu Cys Met Met
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195 200 Ser Asp Ser Val Phe Ile Ala Ile Ser Tyr Met Leu Phe Ile Leu Lys 215 220 Thr Val Leu Gly Ile Ala Ser His Gly Glu Cys Leu Glu Ala Leu Asp 230 235 Thr Cys Val Ser His Ile Cys Ala Val Leu Val Phe Tyr Val Pro Ile 245 250 Ile Thr Leu Ala Thr Met Arg Arg Phe Ala Lys His Lys Ser Pro Leu 265 260 Ala Met Ile Leu Ile Ala Asp Ala Phe Leu Leu Val Pro Pro Leu Met 280 Asn Pro Ile Val Tyr Cys Val Lys Thr Arg Gln Ile Arg Val Lys Val 295 Leu Glu Lys Leu Ala Leu Lys Pro Lys Xaa Trp Gly <210> 1403 <211> 314 <212> PRT <213> Unknown (H38g320 protein) <220> <223> Synthetic construct <400> 1403 Met Met Ala Ser Glu Arg Asn Gln Ser Ser Thr Pro Thr Phe Ile Leu Leu Gly Phe Ser Glu Tyr Pro Glu Ile Gln Val Pro Leu Phe Leu Val Phe Leu Phe Val Tyr Thr Val Thr Val Gly Asn Leu Gly Met Ile 40 Ile Ile Arg Leu Asn Ser Lys Leu His Thr Ile Met Cys Phe Phe 55 Leu Ser His Leu Ser Leu Thr Asp Phe Cys Phe Ser Thr Val Val Thr 75 70 Pro Lys Leu Leu Glu Asn Leu Val Val Glu Tyr Arg Thr Ile Ser Phe 90 Ser Gly Cys Ile Met Gln Phe Cys Phe Ala Cys Ile Phe Gly Val Thr 105 Glu Thr Phe Met Leu Ala Ala Met Ala Tyr Asp Arg Phe Val Ala Val 120 125 Cys Lys Pro Leu Leu Tyr Thr Thr Ile Met Ser Gln Lys Leu Cys Ala 140 135 Leu Leu Val Ala Gly Ser Tyr Thr Trp Gly Ile Val Cys Ser Leu Ile 150 155 Leu Thr Tyr Phe Leu Leu Asp Leu Ser Phe Cys Glu Ser Thr Phe Ile 170 165 Asn Asn Phe Ile Cys Asp His Ser Val Ile Val Ser Ala Ser Tyr Ser 180 185 Asp Pro Tyr Ile Ser Gln Arg Leu Cys Phe Ile Ile Ala Ile Phe Asn 200 205 Glu Val Ser Ser Leu Ile Ile Ile Leu Thr Ser Tyr Met Leu Ile Phe 215 220 Thr Thr Ile Met Lys Met Arg Ser Ala Ser Gly Arg Gln Lys Thr Phe 230 235 Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr 250 245 Ile Leu Phe Leu Tyr Cys Val Pro Asn Pro Lys Thr Ser Ser Leu Ile 260 265 Val Thr Val Ala Ser Val Phe Tyr Thr Val Ala Ile Pro Met Leu Asn 280

Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Ile Asn Asn Met Phe Glu 295 Lys Leu Val Val Thr Lys Leu Ile Tyr His 310 305 <210> 1404 <211> 322 <212> PRT <213> Unknown (H38g321 protein) <220> <223> Synthetic construct <221> VARIANT <222> (1)...(322) <223> Xaa = Any Amino Acid <400> 1404 His Thr Glu Pro Arg Asn His Thr Gly Val Xaa Glu Phe Leu Leu 5 10 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser 25 20 Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser 40 45 Ile Leu Ala Val Arg Ser Asp Ser Pro Leu His Asn Pro Met Tyr Phe 55 Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr 70 75 65 Val Ala Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser 90 His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys 105 100 Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala 125 120 115 Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys 140 135 Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln 155 150 Leu His Ser Ser Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu 170 165 Ile Ser His Phe Val Cys Asp Pro Ser His Leu Leu Lys Leu Ala Cys 190 180 185 Ser Asp Ser Val Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met 205 195 200 Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Trp Ser Tyr Tyr Lys Ile 215 220 Val Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala 230 235 Phe Ala Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Asp Gly 250 255 245 Thr Gly Ile Gly Met Tyr Leu Thr Ser Ala Val Ala Pro Pro Pro Arg 270 265 260 Asn Gly Val Val Ala Ser Val Met Xaa Ala Val Val Thr Pro Met Leu 280 285 275 Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu 300 295 Arg Arg Leu Leu Ser Arg Thr Val Glu Phe His Asp Leu Phe His Ser 305 310 315 Phe Ser

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<211> 330
<212> PRT
<213> Unknown (H38g322 protein)
<220>
<223> Synthetic construct
<400> 1405
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Met Gly Ile Pro Gly Leu Lys Ala Thr Gln Tyr Trp Ile Ser Ile Pro
           20
                               25
Phe Cys Leu Leu Tyr Val Val Ala Val Ser Gly Asn Ser Met Ile Leu
                                               45
Phe Val Val Leu Cys Glu Arg Ser Leu His Lys Pro Met Tyr Tyr Phe
                       55
                                           60
Leu Ser Met Leu Ser Ala Thr Asp Leu Ser Leu Ser Leu Cys Thr Leu
                                       75
                   70
Ser Thr Thr Leu Gly Val Phe Trp Phe Glu Ala Arg Glu Ile Asn Leu
                                  90
               85
Asn Ala Cys Ile Ala Gln Met Phe Phe Leu His Gly Phe Thr Phe Met
                               105
           100
Glu Ser Gly Val Leu Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile
                           120
       115
Cys Tyr Pro Leu Arg Tyr Thr Thr Ile Leu Thr Asn Ala Arg Ile Ala
                                           140
                       135
Lys Ile Gly Met Ser Met Leu Ile Arg Asn Val Ala Val Met Leu Pro
                                       155
                   150
Val Met Leu Phe Val Lys Arg Leu Ser Phe Cys Ser Ser Met Val Leu
                                    170
Ser His Ser Tyr Cys Tyr His Val Asp Leu Ile Gln Leu Ser Cys Thr
                               185
            180
Asp Asn Arg Ile Asn Ser Ile Leu Gly Leu Phe Ala Leu Leu Ser Thr
                            200
       195
Thr Gly Phe Asp Cys Pro Cys Ile Leu Leu Ser Tyr Ile Leu Ile Ile
                       215
                                           220
Arg Ser Val Leu Ser Ile Ala Ser Ser Glu Glu Arg Arg Lys Ala Phe
                   230
                                       235
Asn Thr Cys Thr Ser His Ile Ser Ala Val Ser Ile Phe Tyr Leu Pro
                                   250
               245
Leu Ile Ser Leu Ser Leu Val His Arg Tyr Gly His Ser Ala Pro Pro
                               265
           260
Phe Val His Ile Ile Met Ala Asn Val Phe Leu Leu Ile Pro Pro Val
                           280
                                                285
Leu Asn Pro Ile Ile Tyr Ser Val Lys Ile Lys Gln Ile Gln Lys Ala
                       295
Ile Ile Lys Val Leu Ile Gln Lys His Ser Lys Ser Asn His Gln Leu
                   310
Phe Leu Ile Arg Asp Lys Ala Ile Tyr Glu
                325
<210> 1406
<211> 314
<212> PRT
<213> Unknown (H38g323 protein)
<223> Synthetic construct
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<400> 1406

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Met Met Wal Leu Arg Asn Leu Ser Met Glu Pro Thr Phe Ala Leu
 1
                                    10
Leu Gly Phe Thr Asp Tyr Pro Lys Leu Gln Ile Pro Leu Phe Leu Val
                                25
Phe Leu Leu Met Tyr Val Ile Thr Val Val Gly Asn Leu Gly Met Ile
Ile Ile Ile Lys Ile Asn Pro Lys Phe His Thr Pro Met Tyr Phe Phe
                        55
Leu Ser His Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Val Thr
                    70
                                        75
Pro Lys Leu Glu Asn Leu Val Met Ala Asp Lys Ser Ile Phe Tyr
               85
                                   90
Phe Ser Cys Met Met Gln Tyr Phe Leu Ser Cys Thr Ala Val Val Thr
           100
                               105
Glu Ser Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile
                                                125
                            120
Cys Asn Pro Leu Leu Tyr Thr Val Ala Met Ser Gln Arg Leu Cys Ala
                        135
                                            140
Leu Leu Val Ala Gly Ser Tyr Leu Trp Gly Met Phe Gly Pro Leu Val
                                        155
Leu Leu Cys Tyr Ala Leu Arg Leu Asn Phe Ser Gly Pro Asn Val Ile
               165
                                    170
Asn His Phe Phe Cys Glu Tyr Thr Ala Leu Ile Ser Val Ser Gly Ser
                                                    190
                               185
            180
Asp Ile Leu Ile Pro His Leu Leu Phe Ser Phe Ala Thr Phe Asn
                            200
Glu Met Cys Thr Leu Leu Ile Ile Leu Thr Ser Tyr Val Phe Ile Phe
                       215
                                           220
Val Thr Val Leu Lys Ile Arg Ser Val Ser Gly Arg His Lys Ala Phe
                   230
                                       235
Ser Thr Trp Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr
               245
                                    250
Ile Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Arg Gln Thr
                                265
Val Lys Val Ala Ser Val Phe Tyr Thr Val Val Asn Pro Met Leu Asn
                            280
                                                285
Pro Pro Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Phe Trp
                       295
Lys Leu Ile His Thr Gln Val Pro Phe His
<210> 1407
<211> 314
<212> PRT
<213> Unknown (H38g324 protein)
<220>
<223> Synthetic construct
Met Val Leu Ala Ser Gly Asn Ser Ser Ser His Pro Val Ser Phe Ile
                                    10
Leu Leu Gly Ile Pro Gly Leu Glu Ser Phe Gln Leu Trp Ile Ala Phe
           20
Pro Phe Cys Ala Thr Tyr Ala Val Ala Val Val Gly Asn Ile Thr Leu
                            40
Leu His Val Ile Arg Ile Asp His Thr Leu His Glu Pro Met Tyr Leu
Phe Leu Ala Met Leu Ala Ile Thr Asp Leu Val Leu Ser Ser Thr
```

Gln Pro Lys Met Leu Ala Ile Phe Trp Phe His Ala His Glu Ile Gln

75

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90
 Tyr His Ala Cys Leu Ile Gln Val Phe Phe Ile His Ala Phe Ser Ser
                                 105
 Val Glu Ser Gly Val Leu Met Ala Met Ala Leu Asp Cys Tyr Val Ala
                             120
                                                 125
 Thr Cys Phe Pro Leu Arg His Ser Ser Ile Leu Thr Pro Ser Val Val
                         135
                                             140
 Ile Lys Leu Gly Thr Ile Val Met Leu Arg Gly Leu Leu Trp Val Ser
                     150
                                         155
 Pro Phe Cys Phe Met Val Ser Arg Met Pro Phe Cys Gln His Gln Ala
                 165
                                     170
 Ile Pro Gln Ser Tyr Cys Glu His Met Ala Val Leu Lys Leu Val Cys
            180
                                 185
 Ala Asp Thr Ser Ile Ser Arg Gly Tyr Gly Leu Phe Val Ala Phe Ser
         195
                             200
                                                 205
 Val Ala Gly Phe Asp Met Ile Val Ile Gly Met Ser Tyr Val Met Ile
                         215
                                             220
 Leu Arg Ala Val Leu Gln Leu Pro Ser Gly Glu Ala Arg Leu Lys Ala
                     230
                                         235
 Phe Ser Thr Arg Ala Ser His Ile Cys Val Ile Leu Ala Leu Tyr Ile
                 245
                                     250
Pro Ala Leu Phe Ser Phe Leu Thr Tyr Arg Phe Gly His Asp Val Pro
             260
                                 265
 Arg Val Val His Ile Leu Phe Ala Asn Leu Tyr Leu Leu Ile Pro Pro
                            280
                                                 285
 Met Leu Asn Pro Ile Ile Tyr Gly Val Arg Thr Lys Gln Ile Gly Asp
                        295
                                             300
 Arg Val Ile Gln Gly Cys Cys Gly Asn Ile
                     310
 <210> 1408
 <211> 287
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 <213> Unknown (H38g325 protein)
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 <223> Synthetic construct
 <221> VARIANT
 <222> (1)...(287)
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 Tyr Ile Leu Leu Asp Ile Tyr Ile Cys Leu Asn Asn Thr His Val Xaa
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 Leu Cys Val Glu Ser Gln Arg Gln Phe Lys Ile Ser Phe Tyr Phe Ser
             20
                                 25
 Phe Phe Leu Leu Ala Ile Thr Xaa Phe Xaa Xaa Xaa Ile Leu Ile Ile
                             40
                                                 45
 Met Lys Thr Xaa Gln Tyr Phe Leu Lys His Lys His Leu Lys Lys
                         55
                                             60
 Phe Ser Xaa Cys Leu Val Tyr Ile Leu Thr Tyr Ile Leu Ser Leu Xaa
                     70
Ser Lys Phe Phe Ala Leu Cys Xaa Ile Phe Ala Asp Lys Ala Phe Gln
                                     90
Glu Gln Val Ser Gly Asn Xaa Xaa Ser Arg Ser Xaa Glu Ser Pro Val
            100
                                105
His Tyr Thr Leu Thr Met Ser Gln Lys Phe Cys Ser Ile His Pro Ala
                            120
                                                125
Gly Cys Tyr Asp Gln Gly Ile Xaa Ser Ile Pro Gly His Ser Phe Ser
                        135
                                            140
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His Cys Ile Ala Tyr Cys Gly His Asn Val Val Asn Ile Phe Xaa Asn
                    150
                                       155
Lys Tyr Ser Val Ala Ile Ser Asp Ser Cys Ser Ser Ser Trp Ile Ala
                165
                                    170
Asp Phe Cys Leu Phe Val Cys Phe Ala Leu Val Asn Phe Asp Xaa Leu
                               185
Arg Asn Leu Arg Val Leu Leu Ser Phe His Phe Gln Leu Val Xaa
                            200
Lys Ala Leu Ser Ala Ser Ala His Gln Pro Ser Pro Pro Ile Ser His
                        215
                                            220
Ile Ser Thr Ile Phe Leu Thr Leu Val Pro Asn Ser Lys Asn Ser Gln
                    230
                                        235
Ala Thr Val Lys Ala His Ser Val Cys Tyr Ala Met Leu Ile Pro Met
                245
                                    250
Leu Asn Ser Gln Thr Cys Ser Met Arg Tyr Lys Asn Val Asn Glu Ser
                               265
                                                    270
Leu Gln Lys Leu Met Asp Phe Lys Ile Phe Xaa His Xaa Lys Gln
                           280
<210> 1409
<211> 323
<212> PRT
<213> Unknown (H38g326 protein)
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- <220>
- <223> Synthetic construct
- <221> VARIANT
- <222> (1)...(323)
- <223> Xaa = Any Amino Acid

180

- <400> 1409
- Ser His Thr Glu Pro Xaa Asn Leu Thr Ser Val Ser Glu Phe Leu Leu 10 Gln Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu 20 25 Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ile Ile 40 Leu Ala Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe 55 60 Leu Ser Asn Leu Ser Trp Ala Asp Ile Gly Phe Thr Ser Ala Met Val 75 Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser Xaa 85 90 Ala Gly Cys Leu Thr Gln Met Ser Phe Phe Val Leu Phe Ala Cys Ile 100 105 Glu Asp Met Leu Leu Thr Val Met Ala Tyr Asp Gln Phe Val Ala Ile 120 125 Cys His Pro Leu His Tyr Pro Val Ile Met Asn Pro His Leu Cys Val 135 140 Phe Leu Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu 150 155 His Ser Trp Ile Val Leu Gln Phe Thr Phe Phe Lys Asn Val Glu Ile 165 170 Ser Asn Phe Phe Cys Asp Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser

185 Asp Gly Ile Ile Asn Ser Ile Phe Ile Tyr Leu Asp Ser Ile Leu Phe 200

Ser Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val

Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe

215

205

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230
                                        235
Ser Ile Cys Gly Ser His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr
                245
                                    250
Gly Ile Gly Val Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Gly Asn
            260
                                265
Gly Val Val Ala Ser Val Met Tyr Ala Val Gly Thr Pro Met Leu Asn
                           280
                                                285
Ser Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Trp
                       295
                                           300
Arg Leu Arg Ser Arg Thr Val Glu Ser Pro Xaa Ser Val Pro Ser Leu
                   310
                                        315
Phe Leu Cys
<210> 1410
<211> 317
<212> PRT
<213> Unknown (H38g327 protein)
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<223> Synthetic construct
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Met Gln Pro Tyr Thr Lys Asn Trp Thr Gln Val Thr Glu Phe Val Met
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Met Gly Phe Ala Gly Ile His Glu Ala His Leu Leu Phe Phe Ile Leu
           20
                               25
Phe Leu Thr Met Tyr Leu Phe Thr Leu Val Glu Asn Leu Ala Ile Ile
                            40
Leu Val Val Gly Leu Asp His Arg Leu Arg Arg Pro Met Tyr Phe Phe
                        55
Leu Thr His Leu Ser Cys Leu Glu Ile Trp Tyr Thr Ser Val Thr Val
                    70
                                        75
Pro Lys Met Leu Ala Gly Phe Ile Gly Val Asp Gly Lys Asn Ile
                                    90
Ser Tyr Ala Gly Cys Leu Ser Gln Leu Phe Ile Phe Thr Phe Leu Gly
           100
                                105
Ala Thr Glu Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val
                           120
                                                125
Ala Ile Cys Met Pro Leu His Tyr Gly Ala Phe Val Ser Trp Gly Thr
                       135
                                            140
Cys Ile Arg Leu Ala Ala Cys Trp Leu Val Gly Phe Leu Thr Pro
                    150
                                        155
Ile Leu Pro Ile Tyr Leu Leu Ser Gln Leu Thr Phe Cys Gly Pro Asn
               165
                                   170
Val Ile Asp His Phe Ser Cys Asp Ala Ser Pro Leu Leu Ala Leu Ser
           180
                               185
Cys Ser Asp Val Thr Trp Lys Glu Thr Val Asp Phe Leu Val Ser Leu
                           200
Ala Val Leu Leu Ala Ser Ser Met Val Ile Ala Val Ser Tyr Gly Asn
                       215
                                         · 220
Ile Val Trp Thr Leu Leu His Ile Arg Ser Ala Ala Glu Arg Trp Lys
                                        235
                    230
Ala Phe Ser Thr Cys Ala Ala His Leu Thr Val Val Ser Leu Phe Tyr
               245
                                    250
Gly Thr Leu Phe Phe Met Tyr Val Gln Thr Lys Val Thr Ser Ser Ile
           260
                                265
Asn Phe Asn Lys Val Val Ser Val Phe Tyr Ser Val Val Thr Pro Met
                           280
                                                285
Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Gly Ala
                                            300
```

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Leu Gly Arg Val Phe Ser Leu Asn Phe Trp Lys Gly Gln
                   310
<210> 1411
<211> 312
<212> PRT
<213> Unknown (H38g328 protein)
<223> Synthetic construct
<400> 1411
Met Asp Gly Glu Asn His Ser Val Val Ser Glu Phe Leu Phe Leu Gly
                                    10
1
Leu Thr His Ser Trp Glu Ile Gln Leu Leu Leu Leu Val Phe Ser Ser
           20
                                25
Val Leu Tyr Val Ala Ser Ile Thr Gly Asn Ile Leu Ile Val Phe Ser
                           40
        35
Val Thr Thr Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
                       55
Ser Leu Ser Phe Ile Asp Leu Gly Ala Cys Ser Val Thr Ser Pro Lys
                                        75
Met Ile Tyr Asp Leu Phe Arg Lys Arg Lys Val Ile Ser Phe Gly Gly
                                   90
                85
Cys Ile Ala Gln Ile Phe Phe Ile His Val Val Gly Val Glu Met
                               105
           100
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Leu Cys Lys
                           120
                                               125
Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Ser Phe
                                            140
                      135
Leu Ala Val Ala Trp Thr Leu Gly Val Ser His Ser Leu Phe Gln Leu
                   150
                                        155
Ala Phe Leu Val Asn Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Ser
                                    170
Phe Tyr Cys Asp Leu Pro Gln Leu Leu Arg Leu Ala Cys Thr Asp Thr
                               185
           180
Tyr Arg Leu Gln Phe Met Val Thr Val Asn Ser Gly Phe Ile Cys Val
                                                205
                           200
Gly Thr Phe Phe Ile Leu Leu Ile Ser Tyr Ile Phe Ile Leu Phe Thr
                       215
                                            220
Val Trp Lys His Ser Ser Gly Gly Ser Ser Lys Ala Leu Ser Thr Leu
                   230
                                        235
Ser Ala His Ser Thr Ala Val Leu Leu Phe Phe Gly Pro Pro Met Phe
                                    250
               245
Val Tyr Thr Trp Pro His Pro Asn Ser Gln Met Asp Lys Phe Leu Ala
                                                   270
                               265
            260
Ile Phe Asp Ala Val Leu Thr Pro Phe Leu Asn Pro Val Val Tyr Thr
                                               285
                           280
        275
Phe Arg Asn Lys Glu Met Lys Ala Ala Ile Lys Arg Val Cys Lys Gln
                       295
Leu Val Ile Tyr Lys Lys Ile Ser
<210> 1412
<211> 223
<212> PRT
<213> Unknown (H38g329 protein)
<220>
<223> Synthetic construct
```

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<221> VARIANT
<222> (1)...(223)
<223> Xaa = Any Amino Acid
<400> 1412
Val Arg His Pro Leu Arg Cys Gly Lys Xaa Glu Pro Ala Pro Leu Pro
                                    10
Pro Leu Ala Leu Arg Asn Pro Ile Met Thr Ser Cys Phe Cys Gly Phe
            20
                                25
Leu Val Leu Phe Phe Phe Phe Phe Leu Ser Pro Leu Asp Ala Gln
                            40
Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Gln Asp Ala Glu
                        55
Ile Pro Ser Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala Cys
                                        75
Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Leu Pro Ala Ala Ile
                                    90
Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile
           100
                                105
                                                    110
Val Ser Ser Ile Leu Arg Val Ser Ser Arg Gly Lys Tyr Lys Ala
                                                125
                            120
Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
                        135
                                            140
Thr Gly Phe Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg
                    150
                                        155
Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Ile Thr Ser Met Leu
                                    170
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Gly Val Leu
                                                    190
           180
                                185
Arg Gln Pro His Gly Ser Thr Val Gln Phe Gln Tyr Leu Leu Ile Cys
                           200
Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Ser Lys Val Lys
<210> 1413
<211> 280
<212> PRT
<213> Unknown (H38g330 protein)
<220>
<223> Synthetic construct '
<400> 1413
Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ile Ile Leu Ala Val
                                    10
Ser Ser Asp Ser His Leu His Thr Pro Met Cys Phe Phe Leu Ser Asn
                                25
           20
Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Met Val Pro Lys Met
                            40
Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr Ala Gly Cys
                        55
                                            60
Leu Thr Gln Met Ser Phe Phe Val Leu Phe Ala Cys Ile Glu Asp Met
                   70
                                        75
Leu Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro
                                    90
               85
Leu His Tyr Pro Val Ile Met Asn Pro His Leu Gly Val Phe Leu Val
                                105
           100
Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser Trp
                            120
                                                125
```

140

Ile Val Leu Gln Phe Thr Phe Phe Lys Asn Val Glu Ile Ser Asn Phe

Val Cys Asp Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Ser Val 150 155 Ile Asn Ser Ile Phe Ile Tyr Leu Asp Ser Ile Met Phe Gly Phe Leu 165 170 Pro Ile Ser Gly Ile Leu Leu Ser Tyr Ala Asn Asn Val Pro Ser Ile 180 185 Leu Arg Ile Ser Ser Ser Asp Arg Lys Ser Lys Ala Phe Ser Thr Cys 195 200 205 Gly Ser His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly Ile Gly 215 220 Val Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg Asn Gly Val Val 225 230 235 Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu Asn Pro Phe Ile 245 250 Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Trp Arg Leu Arg 260 265 Ser Arg Thr Val Glu Ser His Asp <210> 1414 <211> 308 <212> PRT <213> Unknown (H38g331 protein) <220> <223> Synthetic construct <400> 1414 Met Glu Thr Gln Asn Leu Thr Val Val Thr Glu Phe Ile Leu Leu Gly 10 Leu Thr Gln Ser Gln Asp Ala Gln Leu Leu Val Phe Val Leu Val Leu 20 25 Ile Phe Tyr Leu Ile Ile Leu Pro Gly Asn Phe Leu Ile Ile Phe Thr 40 45 Ile Lys Ser Asp Pro Gly Leu Thr Ala Pro Leu Tyr Phe Phe Leu Gly 55 Asn Leu Ala Leu Leu Asp Ala Ser Tyr Ser Phe Ile Val Val Pro Arg 70 75 Met Leu Val Asp Phe Leu Ser Glu Lys Lys Val Ile Ser Tyr Arg Ser 90 Cys Ile Thr Gln Leu Phe Phe Leu His Phe Leu Gly Ala Gly Glu Met 105 Phe Leu Leu Val Val Met Ala Phe Asp Arg Tyr Ile Ala Ile Cys Arg 120 125 Pro Leu His Tyr Ser Thr Ile Met Asn Pro Arg Ala Cys Tyr Ala Leu 135 140 Ser Leu Val Leu Trp Leu Gly Gly Phe Ile His Ser Ile Val Gln Val 150 155

Ala Leu Ile Leu His Leu Pro Phe Cys Gly Pro Asn Gln Leu Asp Asn 165 170 Phe Phe Cys Asp Val Pro Gln Val Ile Lys Leu Ala Cys Thr Asn Thr 185 Phe Val Val Glu Leu Leu Met Val Ser Asn Ser Gly Leu Leu Ser Leu 200 205 Leu Cys Phe Leu Gly Leu Leu Ala Ser Tyr Ala Val Ile Leu Cys Arg 215 220 Ile Arg Glu His Ser Ser Glu Gly Lys Ser Lys Ala Ile Ser Thr Cys 230

235 Thr Thr His Ile Ile Ile Phe Leu Met Phe Gly Pro Ala Ile Phe 250

Ile Tyr Thr Cys Pro Phe Gln Ala Phe Pro Ala Asp Lys Val Val Ser

```
265
 Leu Phe His Thr Val Ile Phe Pro Leu Met Asn Pro Val Ile Tyr Thr
                           280
 Leu Arg Asn Gln Glu Val Lys Ala Ser Met Arg Lys Leu Leu Ser Gln
                         295
                                             300
His Met Phe Cys
 305
<210> 1415
<211> 154
<212> PRT
<213> Unknown (H38g332 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1) ... (154)
<223> Xaa = Any Amino Acid
<400> 1415
Gly Met Arg Lys Glu Gln Ala Val Cys Gly Ser His Arg Met Ile Glu
Met Met Cys Gly Pro Xaa Val Arg Leu Pro Gly Ser Asn Ala Gly Ser
            20
                                25
Leu Leu Phe Thr His Leu Ile Leu Ala Cys Gly Ser Leu Leu Ile
                            40
Pro Phe His Leu Gly Leu Val Ala Ser His Thr Ser Ile Phe Leu Thr
                        55
                                            60
Val Leu His Met Lys Ser Pro Xaa Ser Arg Asn Lys Ala Leu Ala Asn
                    70
                                        75
Cys Ser Ser His Leu Ser Val Gly Leu Tyr Leu Gly Thr Val Cys Leu
                85
                                    90
Ile Tyr Val Thr Gln Gly Phe Ser His Ile Pro Glu Gln Lys Gln Ala
                                105
                                                    110
Val Ser Val Phe Cys Thr Val Leu Thr Pro Met Leu Asn Pro Leu Ile
                            120
                                                125
Tyr Ile Leu Arg Asn Lys Asp Val Val Arg Ala Leu Gln Lys Val Leu
                        135
Gly Thr His Gln Val Ser Lys Gln Asn Thr
                    150
<210> 1416
<211> 324
<212> PRT
<213> Unknown (H38g333 protein)
<220>
<223> Synthetic construct
<400> 1416
Met Ser Phe Phe Phe Val Asp Leu Arg Pro Met Asn Arg Ser Ala Thr
                                    10
His Ile Val Thr Glu Phe Ile Leu Leu Gly Phe Pro Gly Cys Trp Lys
                                25
Ile Gln Ile Phe Leu Phe Ser Leu Phe Leu Val Ile Tyr Val Leu Thr
Leu Leu Gly Asn Gly Ala Ile Ile Tyr Ala Val Arg Cys Asn Pro Leu
                        55
Leu His Thr Pro Met Tyr Phe Leu Leu Gly Asn Phe Ala Phe Leu Glu
                    70
                                        75
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Ile Trp Tyr Val Ser Ser Thr Ile Pro Asn Met Leu Val Asn Ile Leu 90 Ser Lys Thr Lys Ala Ile Ser Phe Ser Gly Cys Phe Leu Gln Phe Tyr 100 105 Phe Phe Phe Ser Leu Gly Thr Thr Glu Cys Leu Phe Leu Ala Val Met 120 Ala Tyr Asp Arg Tyr Leu Ala Ile Cys His Pro Leu Gln Tyr Pro Ala 135 140 Ile Met Thr Val Arg Phe Cys Gly Lys Leu Val Ser Phe Cys Trp Leu 150 155 Ile Gly Phe Leu Gly Tyr Pro Ile Pro Ile Phe Tyr Ile Ser Gln Leu 165 170 Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Leu Cys Asp Met Asp 180 185 Pro Leu Met Ala Leu Ser Cys Ala Pro Ala Pro Ile Thr Glu Cys Ile 200 205 Phe Tyr Thr Gln Ser Ser Leu Val Leu Phe Phe Thr Ser Met Tyr Ile 215 220 Leu Arg Ser Tyr Ile Leu Leu Leu Thr Ala Val Phe Gln Val Pro Ser 230 235 Ala Ala Gly Arg Arg Lys Ala Phe Ser Thr Cys Gly Ser His Leu Val 250 Val Val Ser Leu Phe Tyr Gly Thr Val Met Val Met Tyr Val Ser Pro 260 265 270 Thr Tyr Gly Ile Pro Thr Leu Leu Gln Lys Ile Leu Thr Leu Val Tyr 275 280 285 Ser Val Thr Thr Pro Leu Phe Asn Pro Leu Ile Tyr Thr Leu Arg Asn 295 300 Lys Asp Met Lys Leu Ala Leu Arg Asn Val Leu Phe Gly Met Arg Ile 310 Arg Gln Asn Ser

<210> 1417

<211> 315

<212> PRT

<213> Unknown (H38g334 protein)

<220>

<223> Synthetic construct

<400> 1417

Met Ala Asn Ile Thr Arg Met Ala Asn His Thr Gly Lys Leu Asp Phe 5 Ile Leu Met Gly Leu Phe Arg Arg Ser Lys His Pro Ala Leu Leu Ser 20 25 Val Val Ile Phe Val Val Phe Leu Lys Ala Leu Ser Gly Asn Ala Val 40 45 Leu Ile Leu Leu Ile His Cys Asp Ala His Leu His Ser Pro Met Tyr 55 60 Phe Phe Ile Ser Gln Leu Ser Leu Met Asp Met Ala Tyr Ile Ser Val 70 75 Thr Val Pro Lys Met Leu Leu Asp Gln Val Met Gly Val Asn Lys Val Ser Ala Pro Glu Cys Gly Met Gln Met Phe Leu Tyr Leu Thr Leu Ala 100 105 Gly Ser Glu Phe Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Tyr Val 120 125 Ala Ile Cys His Pro Leu Arg Tyr Pro Val Leu Met Asn His Arg Val 135 140 Cys Leu Phe Leu Ala Ser Gly Cys Trp Phe Leu Gly Ser Val Asp Gly

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145
                    150
                                         155
Phe Met Leu Thr Pro Ile Thr Met Ser Phe Pro Phe Cys Arg Ser Trp
                                    170
                165
                                                         175
Glu Ile His His Phe Phe Cys Glu Val Pro Ala Val Thr Ile Leu Ser
            180
                                185
Cys Ser Asp Thr Ser Leu Tyr Glu Thr Leu Met Tyr Leu Cys Cys Val
                            200
                                                 205
Leu Met Leu Leu Ile Pro Val Thr Ile Ile Ser Ser Ser Tyr Leu Leu
                        215
                                             220
Ile Leu Leu Thr Val His Arg Met Asn Ser Ala Glu Gly Arg Lys Lys
                    230
                                         235
Ala Phe Ala Thr Cys Ser Ser His Leu Thr Val Val Ile Leu Phe Tyr
                245
                                     250
Gly Ala Ala Val Tyr Thr Tyr Met Leu Pro Ser Ser Tyr His Thr Pro
            260
                                265
                                                     270
Glu Lys Asp Met Met Val Ser Val Phe Tyr Thr Ile Leu Thr Pro Val
                            280
                                                285
Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Met Gly Ala
                        295
Leu Lys Lys Met Leu Thr Val Arg Phe Val Leu
<210> 1418
<211> 253
<212> PRT
<213> Unknown (H38g335 protein)
<220> .
<223> Synthetic construct
<221> VARIANT
<222> (1)...(253)
<223> Xaa = Any Amino Acid
<400> 1418
Ser His Leu Ser Val Ile Asp Thr Leu Tyr Ile Ser Thr Ile Val Pro
                                    10
Lys Met Leu Val Asp Tyr Leu Met Gly Glu Gly Thr Ile Ser Phe Ile
            20
                                25
Ala Cys Thr Ala Gln Cys Phe Leu Tyr Met Gly Phe Met Gly Ala Glu
                            40
Phe Phe Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
                        55
Asn Pro Leu Arg Tyr Pro Val Leu Ile Ser Trp Arg Val Cys Trp Met
                    70
                                        75
Ile Leu Ala Ser Ser Trp Phe Gly Gly Ala Leu Asp Ser Phe Leu Leu
                85
                                    90
Thr Pro Ile Thr Met Ser Leu Pro Phe Cys Ala Ser His Gln Ile Asn
                                105
His Phe Phe Cys Glu Ala Pro Thr Met Leu Arg Leu Ala Cys Gly Asp
                            120
                                                125
Lys Thr Thr Tyr Glu Thr Val Met Tyr Val Cys Cys Val Ala Met Leu
                        135
                                            140
Leu Ile Pro Phe Ser Val Val Thr Ala Ser Tyr Thr Arg Ile Leu Ile
                    150
                                        155
Thr Val His Gln Met Thr Ser Ala Glu Gly Arg Lys Lys Ala Phe Ala
               165
                                    170
Thr Cys Ser Ser His Met Met Val Val Thr Leu Phe Tyr Gly Ala Ala
                                185
                                                    190
Leu Tyr Thr Tyr Thr Leu Pro Gln Ser Tyr His Thr Pro Ile Lys Asp
                            200
                                                205
```

Lys Val Phe Ser Ala Phe Tyr Thr Ile Leu Thr Pro Leu Leu Asn Pro

215 220 Leu Ile Tyr Ser Leu Arg Asn Arg Asp Val Met Gly Ala Leu Lys Arg 230 235 Val Val Ala Arg Cys Xaa Gly Thr Cys Gly Val Met Arg 245 250 <210> 1419 <211> 285 <212> PRT <213> Unknown (H38g336 protein) <220> <223> Synthetic construct <221> VARIANT <222> (1)...(285) <223> Xaa = Any Amino Acid <400> 1419 Val Phe Ser Arg Thr Arg Val Arg Leu Asn Cys Lys Arg Ile Phe Trp 5 10 Leu Thr Pro Val Phe Phe Leu Ser Pro Ser Cys Pro Ser Pro Ile Ala 20 25 Val Ser Lys Ser Ala Val Ser Phe Val Ser Gln Ser Arg Arg Ile Arg 35 40 Phe Leu Gly Cys Asp Ile Gln Thr Tyr Val Phe Leu Ala Pro Gly Gly 55 Thr Glu Ala Leu Leu Phe Gly Phe Met Ser Tyr Asp Arg Tyr Val Ala 70 75 Ile Cys His Pro Leu His Tyr Pro Met Leu Met Ser Lys Lys Ile Cys 85 90 Cys Leu Met Val Ala Cys Ala Trp Ala Ser Gly Ser Ile Asn Ala Phe 105 Ile His Thr Leu Tyr Val Phe Gln Leu Pro Phe Cys Arg Ser Arg Leu 120 125 Ile Asn His Phe Phe Cys Glu Val Pro Ala Leu Leu Ser Leu Val Cys 135 140 Gln Asp Thr Ser Gln Tyr Glu Tyr Thr Val Leu Leu Ser Gly Leu Ile 150 155 Ile Leu Leu Pro Phe Leu Ala Ile Leu Ala Ser Tyr Ala Arg Val 170 Leu Ile Val Val Phe Gln Met Ser Ser Gly Lys Gly Gln Ala Lys Ala 180 185 Val Ser Thr Cys Ser Ser His Leu Ile Val Ala Ser Leu Phe Tyr Ala 200 205 Thr Thr Leu Phe Thr Tyr Thr Arg Pro His Ser Leu Arg Ser Pro Ser 215 220 Arg Asp Lys Ala Val Ala Val Phe Tyr Thr Ile Val Thr Pro Leu Leu 230 235 Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Glu Val Thr Gly Ala Val 245 250 Arg Arg Leu Leu Gly Tyr Trp Ile Cys Cys Arg Lys Tyr Asp Phe Arg 260 265 Ser Leu Tyr Xaa Leu Ser Ile Asn Asn Ile Lys Ser Cys 275 280 <210> 1420 <211> 271 <212> PRT <213> Unknown (H38g337 protein)

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<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(271)
<223> Xaa = Any Amino Acid
<400> 1420
Arg Arg Asp Ile Phe Tyr Phe Ala Phe Ile Cys Ser Tyr Ser Xaa Leu
                                    10
Thr Leu Arg Ser Phe Val Tyr Leu Phe Ile Arg Pro Ser Ile His Pro
                                25
Ser Ile His Ser Ala Ile Leu Leu Phe Asn Ser Asp Leu Leu Asn Ser
                            40
Leu Leu Cys Ser Ser Ile Phe Asp Met Pro His Asp Val Gln Gln Xaa
                        55
Leu Leu Leu Lys Ser Xaa Phe Leu Val Ser His Cys Phe Ser Leu Val
                    70
                                        75
Leu Tyr Leu Leu Leu Xaa Leu Arg Thr Glu Lys Ser Ile Glu Lys
                                    90
Ile Leu Leu Pro Gly Tyr Gly Thr Leu Leu Ser Met Ala Ile Ser Tyr
                                105
Cys Leu Cys Val Phe Gly Leu Ser Asn Pro Ala Ala Cys Val Tyr Ala
        115
                           120
Gln Xaa Cys Ser Trp Asn Lys Met Val Trp Phe Leu Phe Gln Glu Val
                        135
                                            140
Leu Pro Ser Leu Phe Xaa Leu Arg Ile Gly Leu Pro Arg Cys Ile Thr
                   150
                                        155
Ser Leu Thr Leu Tyr Ser Cys Asp Phe Phe Leu Met Ile Gly Gln Ile
               165
                                    170
Cys Thr Lys Lys Ser Lys Ile Ile Tyr Tyr Ile Met Pro Phe Leu Leu
                               185
                                                   190
Leu Phe Met Pro Asp Xaa Ile Phe Leu Val Leu Gln Cys Pro Leu Leu
                            200
                                                205
Ile Ser Ile Asn Lys Xaa Pro Phe Pro Asn Leu Leu Lys Ser Pro Cys
                        215
                                            220
Gly Ile Gly His Leu Ser Val Asp Ser Ile Ser Ser Pro Ser Phe Phe
                    230
                                        235
Cys Leu Pro Val Cys Pro Ser Ile Tyr Pro Ser Thr Xaa Leu Phe Val
                245
                                    250
Arg Ser Thr Met Ile Xaa Xaa Ile Pro Thr Tyr Cys Asp Pro Ile
                                265
                                                    270
<210> 1421
<211> 310
<212> PRT
<213> Unknown (H38g338 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(310)
<223> Xaa = Any Amino Acid
<400> 1421
Met Ser Leu Ala Glu Gly Asn Gln Ser Ser Gly Ala Val Phe Thr Leu
                                    10
Leu Gly Phe Ser Glu Tyr Ala Asp Leu Gln Val Pro Leu Phe Leu Val
            20
                               25
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Phe Leu Thr Ile Tyr Thr Ile Thr Val Leu Gly Asn Leu Gly Met Ile
                            40
Met Ile Ile Arg Ile Asn Pro Lys Leu His Thr Arg Met Tyr Phe Phe
                         55
                                             60
Leu Ser His Leu Ser Phe Val Asp Phe Cys Tyr Ser Thr Thr Val Thr
                    70
                                         75
Pro Lys Leu Leu Glu Asn Leu Val Val Glu Asp Arg Thr Ile Ser Phe
                                    90
Thr Gly Cys Ile Met Gln Phe Phe Leu Ala Cys Ile Cys Ala Val Ala
                                105
Glu Thr Phe Met Leu Ala Val Met Ala Tyr Asp Xaa Tyr Val Ala Val
                            120
                                                 125
Cys Asn Pro Leu Leu Tyr Thr Val Val Arg Ser Gln Lys Leu Cys Ala
                        135
                                            140
Ser Leu Val Ala Gly Pro Tyr Thr Trp Gly Ile Ile Ser Ser Leu Thr
                    150
                                        155
Leu Thr Tyr Phe Leu Leu Ser Leu Ser Phe Cys Gly Ser Asn Ile Ile
                165
                                    170
Asn Asn Phe Val Cys Glu His Ser Val Ile Ile Ser Val Ser Cys Ser
            180
                                185
Asp Pro Tyr Ile Ser Gln Met Leu Cys Phe Val Ile Ala Ile Phe Asn
        195
                            200
Glu Val Ser Ser Leu Gly Val Ile Leu Thr Thr Tyr Ile Phe Ile Phe
                        215
                                            220
Ile Ala Val Ile Lys Met Pro Ser Ala Val Gly His Gln Lys Ala Phe
                    230
                                        235
Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr
                                    250
Val Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Trp Leu Ile
            260
                               265
                                                    270
Val Lys Val Gly Ser Val Phe Tyr Thr Val Ile Ile Pro Thr Leu Asn
                           280
                                                285
Pro Leu Thr Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Met Phe Glu
                        295
Ser Xaa Xaa Ile Thr Gln
<210> 1422
<211> 217
<212> PRT
<213> Unknown (H38g339 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(217)
<223> Xaa = Any Amino Acid
Phe Leu Val Leu Phe Ala Cys Ile Glu Asp Met Phe Leu Thr Val Met
                                    10
Ala Tyr Asp Cys Phe Ile Ala Ile Cys His Pro Leu His Tyr Pro Val
           20
                                25
Ile Val Asn Pro His Leu Cys Val Phe Phe Ile Leu Val Ser Phe Phe
                            40
Leu Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu Gln Phe
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60

55

70

Thr Ile Ile Lys Asn Val Glu Val Ser Asn Phe Val Cys Asp Pro Ser

Gln Leu Leu Lys Leu Ala Cys Ser Asp Ser Val Ile Asn Ser Ile Phe

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90
Ile Tyr Phe Asp Asn Thr Met Phe Gly Phe Leu Pro Ile Ser Gly Ile
                                105
                                                    110
Leu Trp Ser Tyr Tyr Lys Ile Val Pro Tyr Ile Leu Arg Ile Ser Ser
                            120
                                                125
Ser Asp Gly Lys Tyr Lys Ala Phe Ala Thr Cys Gly Ser His Leu Ala
                        135
                                            140
Val Ala Cys Xaa Phe Tyr Gly Thr Gly Ile Gly Met Tyr Leu Thr Ser
                    150
                                        155
Ala Val Ser Pro Pro Pro Arg Asn Gly Val Val Ala Ser Val Met Tyr
                165
                                    170
                                                        175 ·
Ala Val Val Thr Pro Met Leu Asn Leu Phe Ile Tyr Ser Leu Arg Asn
                                185
Arg Asp Ile Gln Ser Ala Leu Arg Arg Leu Arg Pro Arg Thr Val Glu
                            200
Ser His Asp Leu Phe His Pro Phe Ser
<210> 1423
<211> 311
<212> PRT
<213> Unknown (H38g340 protein)
<220>
<223> Synthetic construct
<400> 1423
Met Gly Lys Glu Asn Cys Thr Thr Val Ala Glu Phe Ile Leu Leu Gly
                                    10
Leu Ser Asp Val Pro Glu Leu Arg Val Cys Leu Phe Leu Leu Phe Leu
                                25
Leu Ile Tyr Gly Val Thr Leu Leu Ala Asn Leu Gly Met Thr Ala Leu
       35
                            40
                                                45
Ile Gln Val Ser Ser Arg Leu His Thr Pro Val Tyr Phe Phe Leu Ser
                        55
                                            60
His Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Ile Val Pro Lys
                   70
                                        75
Met Leu Ala Asn Ile Phe Asn Lys Asp Lys Ala Ile Ser Phe Leu Gly
                                    90
Cys Met Val Gln Phe Tyr Leu Phe Cys Thr Cys Gly Val Thr Glu Val
                                105
Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn
                            120
Pro Leu Leu Tyr Met Val Thr Met Ser Gln Lys Leu Arg Val Glu Leu
                        135
                                            140
Thr Ser Cys Cys Tyr Phe Cys Gly Thr Val Cys Ser Leu Ile His Ser
                   150
                                        155
Ser Leu Ala Leu Arg Ile Leu Phe Tyr Arg Ser Asn Val Ile Asn His
               165
                                    170
Phe Phe Cys Asp Leu Pro Pro Leu Leu Ser Leu Ala Cys Ser Asp Val
            180
                                185
Thr Val Asn Glu Thr Leu Leu Phe Leu Val Ala Thr Leu Asn Glu Ser
                            200
                                                205
Val Thr Ile Met Ile Ile Leu Thr Ser Tyr Leu Leu Ile Leu Thr Thr
                       215
                                            220
Ile Leu Lys Ile His Ser Ala Glu Ser Arg His Lys Ala Phe Ser Thr
                   230
                                        235
Cys Ala Ser His Leu Thr Ala Ile Thr Val Ser His Gly Thr Ile Leu
               245
                                    250
Tyr Ile Tyr Cys Arg Pro Ser Ser Gly Asn Ser Gly Asp Val Asp Lys
            260
                               265
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Val Ala Thr Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
                          280
Ile Tyr Ser Leu Arg Asn Lys Asp Val Asn Lys Ala Leu Arg Lys Val
                      295
Met Gly Ser Lys Ile His Ser
                   310
<210> 1424
<211> 321
<212> PRT
<213> Unknown (H38g341 protein)
<220>
<223> Synthetic construct
<400> 1424
Met Phe Leu Thr Glu Arg Asn Thr Thr Ser Glu Ala Thr Phe Thr Leu
                                   10
Leu Gly Phe Ser Asp Tyr Leu Glu Leu Gln Ile Pro Leu Phe Phe Val
                               25
Phe Leu Ala Val Tyr Gly Phe Ser Val Val Gly Asn Leu Gly Met Ile
                           40
Val Ile Ile Lys Ile Asn Pro Lys Leu His Thr Pro Met Tyr Phe Phe
                       55
Leu Asn His Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Ile Ala
                   70
                                       75
Pro Met Met Leu Val Asn Leu Val Val Glu Asp Arg Thr Ile Ser Phe
                                   90
               85
Ser Gly Cys Leu Val Gln Phe Phe Phe Phe Cys Thr Phe Val Val Thr
                                                   110
           100
                              105
Glu Leu Ile Leu Phe Ala Val Met Ala Tyr Asp His Phe Val Ala Ile
                                              125
                          120
Cys Asn Pro Leu Leu Tyr Thr Val Ala Ile Ser Gln Lys Leu Cys Ala
                      135
Met Leu Val Val Leu Tyr Ala Trp Gly Val Ala Cys Ser Leu Thr
                   150
                                       155
Leu Ala Cys Ser Ala Leu Lys Leu Ser Phe His Gly Phe Asn Thr Ile
                                   170
               165
Asn His Phe Phe Cys Glu Leu Ser Ser Leu Ile Ser Leu Ser Tyr Pro
                               185
           180
Asp Ser Tyr Leu Ser Gln Leu Leu Leu Phe Thr Val Ala Thr Phe Asn
                           200
                                               205
Glu Ile Ser Thr Leu Leu Ile Ile Leu Thr Ser Tyr Ala Phe Ile Ile
                                           220
                      215
Val Thr Thr Leu Lys Met Pro Ser Ala Ser Gly His Arg Lys Val Phe
                                       235
                   230
Ser Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr
               245
                                   250
                                                       255
Ile Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Arg His Thr
                                                  270
                               265
           260
Val Lys Val Ala Ser Val Phe Tyr Thr Val Val Ile Pro Leu Leu Asn
                          280
Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Ile Arg
                      295
                                           300
Lys Ile Ile Asn Thr Lys Tyr Phe His Ile Lys His Arg His Trp Tyr
                   310
                                       315
Pro
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<210> 1425 <211> 101

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<212> PRT
<213> Unknown (H38g342 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(101)
<223> Xaa = Any Amino Acid
<400> 1425
Cys Cys Pro Leu His His His Tyr Leu Pro Arg Gln Ser Leu Asp Gln
1
                                    10
Leu Thr Tyr Leu Ile Ala Leu Ile Phe Asn Phe Leu Phe Val Phe Gly
                                25
            20
Leu Gln Ser Ser Phe Ile Phe Leu Lys Ala Xaa Gln Cys Phe Pro Lys
                                                45
                            40
Asp Ile His Tyr Ile Phe Val Lys Ala Arg Arg Ala Ser Gly Tyr Leu
                        55
Thr Tyr His Ile Ala Gly Asn Arg Ser Xaa Thr Val Phe Phe Leu Val
                   70
                                        75
Cys Asn Cys His Tyr Tyr Gly Asp Asp Ile Gly Xaa Val Xaa Ile Phe
                                    90
                85
Tyr Val Asn Ile Leu
           100
<210> 1426
<211> 319
<212> PRT
<213> Unknown (H38g343 protein)
<220>
<223> Synthetic construct
<400> 1426
Met Pro Val Gly Lys Leu Val Phe Asn Gln Ser Glu Pro Thr Glu Phe
                                    10
Val Phe Arg Ala Phe Thr Thr Ala Thr Glu Phe Gln Val Leu Leu Phe
           20
                                25
                                                    30
Leu Leu Phe Leu Leu Tyr Leu Met Ile Leu Cys Gly Asn Thr Ala
                           40
                                                45
Ile Ile Trp Val Val Cys Thr His Ser Thr Leu Arg Thr Pro Met Tyr
                        55
Phe Phe Leu Ser Asn Leu Ser Phe Leu Glu Leu Cys Tyr Thr Thr Val
Val Val Pro Leu Met Leu Ser Asn Ile Leu Gly Ala Gln Lys Pro Ile
                                    90
Ser Leu Ala Gly Cys Gly Ala Gln Met Phe Phe Phe Val Thr Leu Gly
                                105
            100
Ser Thr Asp Cys Phe Leu Leu Ala Ile Met Ala Tyr Asp Arg Tyr Val
                            120
                                                125
Ala Ile Cys His Pro Leu His Tyr Thr Leu Ile Met Thr Arg Glu Leu
                        135
                                            140
Cys Thr Gln Met Leu Gly Gly Ala Leu Gly Leu Ala Leu Phe Pro Ser
                                        155
                    150
Leu Gln Leu Thr Ala Leu Ile Phe Thr Leu Pro Phe Cys Gly His His
                                    170
Gln Glu Ile Asn His Phe Leu Cys Asp Val Pro Pro Val Leu Arg Leu
                                185
                                                    190
           180
Ala Cys Ala Asp Ile Arg Val His Gln Ala Val Leu Tyr Val Val Ser
        195
                            200
```

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Ile Leu Val Leu Thr Ile Pro Phe Leu Leu Ile Cys Val Ser Tyr Val
                        215
                                            220
Phe Ile Thr Cys Ala Ile Leu Ser Ile Arg Ser Ala Glu Gly Arg Arg
                    230
                                        235
Arg Ala Phe Ser Thr Cys Ser Phe His Leu Thr Val Val Leu Leu Gln
                                    250
                245
Tyr Gly Cys Cys Ser Leu Val Tyr Leu Arg Pro Arg Ser Ser Thr Ser
                                265
Glu Asp Glu Asp Ser Gln Ile Ala Leu Val Tyr Thr Phe Val Thr Pro
                            280
Leu Leu Asn Pro Leu Leu Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly
                        295
                                            300
Ala Leu Arg Ser Ala Ile Ile Arg Lys Ala Ala Ser Asp Ala Asn
                   310
                                        315
<210> 1427
<211> 208
<212> PRT
<213> Unknown (H38g344 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(208)
<223> Xaa = Any Amino Acid
<400> 1427
Met Glu Leu Glu Asn Gly Thr Val Lys Thr Gly Phe Phe Leu Leu Gly
      5
                                   10
Phe Ser Asp His Leu Glu Leu Gln Ser Leu Leu Phe Ala Glu Phe Phe
                               25
Ser Ile Tyr Ser Val Thr Leu Met Gly Asn Leu Gly Met Ile Leu Leu
                            40
Ile Thr Ile Ser Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Cys
                        55
Val Leu Ser Phe Ile Asp Ala Cys Tyr Ser Ser Val Ile Ala Pro Lys
                    70
                                        75
Leu Leu Val Asn Leu Val Ser Glu Lys Lys Thr Ile Ser Tyr Asn Gly
                                    90
Cys Val Ala Gln Leu Tyr Phe Phe Cys Ser Leu Val Asp Thr Glu Ser
                               105
Phe Leu Leu Ala Ala Met Ala Xaa Asp Arg Tyr Ile Ala Ile Cys Asn
                            120
                                               125
Pro Leu Leu Tyr Thr Val Ile Met Ser Lys Lys Val Cys Cys Gln Leu
                        135
                                            140
Ala Ile Gly Ala Phe Leu Gly Gly Thr Met Ser Ser Ile Ile His Thr
                   150
                                       155
Thr Asn Thr Phe His Leu Ser Phe Cys Ser Arg Asp Ile Asn His Phe
               165
                                   170
                                                        175
Phe Cys Asp Ile Ser Pro Leu Phe Ser Leu Ser Cys Thr Asp Thr Tyr
           180
                               185
                                                   190
Met His Asp Ile Ile Leu Val Val Phe Ala Ser Phe Val Glu Ala Ile
       195
                            200
                                               205
<210> 1428
<211> 321
<213> Unknown (H38g345 protein)
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<220>

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<223> Synthetic construct
<221> VARIANT
 <222> (1) ... (321)
 <223> Xaa = Any Amino Acid
<400> 1428
His Thr Glu Pro Arg Asn Leu Thr Gly Val Ser Glu Phe Leu Leu Leu
                5
                                    10
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Pro Gly Leu Ser
            20
                                25
Leu Ser Met Tyr Leu Leu Thr Val Leu Arg Asn Leu Leu Ile Ile Leu
                             40
                                                 45
Ala Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
Ser Asn Pro Ser Trp Ala Asp Ile Ala Phe Thr Ser Ala Thr Val Pro
                    70
                                        75
Lys Met Ile Val Asp Met Gln Ser His Arg Val Ile Ser Tyr Ala Ser
                85
                                    90
Cys Leu Thr Gln Met Ser Phe Phe Ala Leu Phe Ala Cys Ile Glu Asp
                               105
            100
Met Leu Leu Ile Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys His
                                                125
                            120
Ser Pro His Tyr Pro Val Ile Met Asn Pro Arg Leu Gly Val Phe Phe
                        135
                                            140
Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His Ser
                    150
                                        155
Trp Thr Val Leu Gln Phe Thr Phe Phe Lys Asn Val Glu Ile Ser Asn
               165
                                   170
Phe Val Cys Asp Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Ser
            180
                               185
                                                    190
Val Ile Asp Ser Ile Phe Ile Tyr Leu Asp Ser Thr Met Phe Arg Phe
       195
                           200
                                                205
Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Ser Asn Ile Val Pro Ser
                       215
                                            220
Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Ser Lys Ala Phe Ser Thr
                    230
                                        235
Cys Arg Ser His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly Ile
                245
                                    250
Gly Val Tyr Leu Thr Ser Ala Val Ala Pro Pro Pro Gly Asp Gly Val
            260
                                265
                                                    270
Val Val Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
                            280
Ile Tyr Cys Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Trp Arg Leu
                       295
                                            300
Arg Ser Arg Thr Val Glu Ser Pro Xaa Ser Val Pro Ser Phe Phe Leu
                    310
                                        315
                                                            320
Cys
<210> 1429
<211> 310
<212> PRT
<213> Unknown (H38g346 protein)
<223> Synthetic construct
<221> VARIANT
```

<222> (1) ... (310)

<223> Xaa = Any Amino Acid

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<400> 1429
Glu Lys Asn Leu Ile Ser Met Asn Gly Phe Met Asn Phe Thr Asp Tyr
 1
                                     10
                 5
Pro Glu Leu Glu Met Pro Leu Phe Leu Val Phe Leu Ser Cys Phe Leu
                                25
            20
                                                     30
Ala Ile Ile Leu Arg Asn Met Glu Trp Val Ile Leu Thr Gln Val Asn
Val His Leu Phe Thr Pro Ile Tyr Phe Phe Leu Thr Asn Val Thr Leu
                        55
Trp Asp Thr Ser Val Ile Met Pro Gln Ile Leu Ala Ile Leu Ala Thr
                    70
                                         75
Gly Lys Thr Thr Ile Ser Tyr Val Pro Leu Ile Lys Ala Met Arg Ser
                85
                                    90
Phe Phe Phe Ile Cys Val Gly Thr Xaa Cys Phe Leu Pro Thr Ala Met
                                105
            100
Thr Ile Ser Ser His Cys Pro Thr Leu Gln Ala Met Asn Phe Lys Thr
                            120
                                                 125
Cys Trp Gly Phe Phe Leu Val Gly Ile Cys Cys Cys Thr Cys Trp Val
                        135
Leu Met Val Asn Val Val Asn Ala Tyr Thr Xaa Gly Leu Ser Gly Ala
                    150
                                         155
Thr Phe Asn Thr Ile Cys Thr Phe Ala Arg Phe Phe Cys Asp Asp Asn
                165
                                    170
Xaa Ile Lys Phe Cys His Ile Leu Pro Leu Leu Lys Leu Ile Xaa Asn
            180
                                                    190
                                185
Thr Ser Gly Asn Ser Lys Ile Ile Ile Val Ile Leu Thr Ala Phe Met
                            200
                                                205
Ile Ile Ala Gly Thr Arg Val Ile Leu Ile Ser Tyr Leu Leu Ile Ile
                       215
                                            220
Arg Ala Leu Arg Met Lys Ser Ser Ser Gly Arg Ser Gln Xaa Phe Tyr
                   230
                                        235
Pro Ser Thr Cys Ala Ser His Leu Thr Ala Met Thr Phe Phe Gly Ile
                                    250
Pro Ile Phe Arg His Val Lys Tyr Leu Arg Xaa Ile Thr Asp Arg Arg
            260
                                265
Gln Val Gly Ile Met Thr Cys Thr Ile Phe Ile Pro Met Leu Glu Leu
                            280
                                                285
Leu Ile Gln Ser Leu Lys Lys Asp Ile Gln Val Ala Phe Lys Lys Ala
                        295
Ile Gly Asn Phe Trp Val
<210> 1430
<211> 336
<212> PRT
<213> Unknown (H38g347 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(336)
<223> Xaa = Any Amino Acid
<400> 1430
Ser Thr Asp Pro Gln Asn Leu Thr Asp Val Ser Ile Phe Leu Leu Arg
                5
                                    10
Gly Thr Ser Glu Asp Pro Glu Trp Gln Leu Val Leu Ala Gly Leu Phe
                                25
Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
```

```
40
                                                45
Ala Val Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Ala
                    70
Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala
                85
                                    90
Gly Cys Leu Thr Gln Met Ser Pro Phe Ala Ile Phe Gly Val Met Glu
                                105
Glu Asn Thr Leu Leu Ser Val Met Ala Ser Asp Arg Phe Val Ala Ile
                            120
Cys His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly
                        135
                                            140
Phe Leu Val Leu Leu Ser Phe Phe Phe Phe Cys Cys Leu Leu Asp Ala
                   150
                                       155
Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val
               165
                                    170
Glu Ile Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala
            180
                                185
Cys Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala
                           200
                                                205
Ile Phe Gly Phe Leu Pro Ile Ser Gly Ser Leu Phe Ser Tyr Tyr Lys
                        215
                                            220
Ile Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Xaa
                    230
                                        235
Ala Phe Ser Ser Cys Trp Ser His Leu Ser Val Val Cys Xaa Phe Tyr
                245
                                    250
Gly Thr Gly Val Gly Gly Tyr Leu Ser Xaa Asp Val Ser Ser Ser Pro
           260
                                265
                                                    270
Arg Lys Val Ala Val Ala Ser Val Met Tyr Met Val Val Thr Pro Met
                           280
                                                285
Leu Asn Pro Phe Val Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser Val
                    · 295
                                           300
Leu Arg Trp Pro His Gly Ser Thr Val Xaa Ser Gln Tyr Leu Leu Ile
                   310
                                       315
Cys Ser Ile Pro Phe Val Val Xaa Val Lys Lys Gly Ser Lys Val Lys
                325
                                    330
<210> 1431
<211> 325
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## <400> 1431

Met Lys Thr Phe Ser Ser Phe Leu Gln Ile Gly Arg Asn Met His Gln 5 Gly Asn Gln Thr Thr Ile Thr Glu Phe Ile Leu Leu Gly Phe Phe Lys 20 25 Gln Asp Glu His Gln Asn Leu Leu Phe Val Leu Phe Leu Gly Met Tyr 40 Leu Val Thr Val Ile Gly Asn Gly Leu Ile Ile Val Ala Ile Ser Leu 55 60 Asp Thr Tyr Leu His Thr Pro Met Tyr Leu Phe Leu Ala Asn Leu Ser 75 Phe Ala Asp Ile Ser Ser Ile Ser Asn Ser Val Pro Lys Met Leu Val 90 Asn Ile Gln Thr Lys Ser Gln Ser Ile Ser Tyr Glu Ser Cys Ile Thr 105

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Unknown (H38g348 protein)

<sup>&</sup>lt;220>

<sup>&</sup>lt;223> Synthetic construct

Gln Met Tyr Phe Ser Ile Val Phe Val Val Ile Asp Asn Leu Leu Leu 120 Gly Thr Met Ala Tyr Asp His Phe Val Ala Ile Cys His Pro Leu Asn 135 140 Tyr Thr Ile Leu Met Arg Pro Arg Phe Gly Ile Leu Leu Thr Val Ile 150 155 Ser Trp Phe Leu Ser Asn Ile Ile Ala Leu Thr His Thr Leu Leu Leu 170 Ile Gln Leu Leu Phe Cys Asn His Asn Thr Leu Pro His Phe Phe Cys 180 185 Asp Leu Ala Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr Leu Ile Asn 200 205 Glu Leu Val Leu Phe Ile Val Gly Leu Ser Val Ile Ile Phe Pro Phe 215 220 Thr Leu Ser Phe Phe Ser Tyr Val Cys Ile Ile Arg Ala Val Leu Arg 230 235 Val Ser Ser Thr Gln Gly Lys Trp Lys Ala Phe Ser Thr Cys Gly Ser 245 250 His Leu Thr Val Val Leu Leu Phe Tyr Gly Thr Ile Val Gly Val Tyr 260 265 Phe Phe Pro Ser Ser Thr His Pro Glu Asp Thr Asp Lys Ile Gly Ala 275 280 285 Val Leu Phe Thr Val Val Thr Pro Met Ile Asn Pro Phe Ile Tyr Ser 295 300 Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Arg Lys Leu Ile Asn Arg 310 Lys Ile Ser Ser Leu 325 <210> 1432

<211> 256

<212> PRT

<213> Unknown (H38g349 protein)

<220>

<223> Synthetic construct

<400> 1432

Met Tyr Phe Phe Leu Ser His Leu Ser Phe Leu Asp Thr Cys Tyr Ser 10 Asn Val Phe Thr Pro Lys Leu Leu Glu Ile Leu Val Val Glu Asp Arg 20 25 Thr Ile Ser Phe Lys Gly Cys Met Val Gln Phe Phe Phe Gly Cys Ala 40 Phe Val Ile Thr Glu Met Phe Met Leu Ala Val Met Ala Tyr Asp Leu 55 60 Phe Met Ala Val Cys Asn Pro Leu Leu Tyr Thr Val Ala Met Ser Pro 70 75 Lys Leu Cys Ala Leu Leu Val Ala Gly Thr Tyr Thr Trp Gly Gly Leu 85 90 Cys Ser Leu Thr Leu Thr Tyr Ser Leu Leu Val Leu Ser Tyr Cys Gly 100 105 110 Ser Asn Ile Ile Asn His Phe Gly Cys Glu Tyr Ser Ala Ile Leu Ser 120 125 Leu Ser Cys Ser Asp Pro Tyr Phe Asn Gln Met Ala Cys Leu Val Ile 135 140 Ser Ile Phe Ser Glu Ala Cys Ser Leu Leu Ala Ile Leu Ala Phe Tyr 155 Val Phe Ile Val Ala Thr Val Ile Lys Met Leu Ser Thr Gly Gly Pro 170 Gln Lys Ala Ile Ser Thr Cys Ala Ser His Leu Thr Thr Val Ser Ile

```
180
                                185
Phe His Gly Val Ile Leu Leu Tyr Cys Val Pro Asn Ser Lys Ser
                           200
Ser Trp Leu Leu Val Lys Val Ala Thr Val Leu Phe Thr Val Ile Ile
                       215
                                           220
Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
                   230
                                     235
Gly Thr Val Arg Lys Leu Ile Asn Ser Gln Ser Pro Phe His Ser Lys
                                    250
<210> 1433
<211> 318
<212> PRT
<213> Unknown (H38g350 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(318)
<223> Xaa = Any Amino Acid
<400> 1433
Met Ala Glu Ser Gly Thr Thr Val Thr Glu Phe Phe Leu Arg Gly Phe
                                    10
Arg Leu Lys Ala Glu Leu Gln Ile Gly Leu Phe Phe Val Phe Leu Val
            20
                                25
Ile Phe Leu Ile Thr Met Gly Gly Asn Leu Gly Met Ile Val Leu Met
                            40
                                                45
Leu Ile Gln Thr Asp Pro Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu
                        55
Ser His Leu Ser Phe Leu Asp Ile Cys Tyr Ser Ser Val Ile Gly Pro
                    70
                                        75
Gln Leu Leu Glu Thr Leu Ala Thr Asp Lys Met Ile Ile Thr Tyr Glu
                                    90
Arg Cys Ala Ser Gln Phe Phe Phe Phe Thr Leu Cys Ala Ser Ile Glu
                                105
Cys Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Val Cys
                            120
Asn Pro Leu Leu Tyr Ala Ile Val Met Thr Pro Lys Thr Arg Leu Ala
                       135
                                           140
Leu Leu Ala Gly Ala Tyr Ser Gly Ala Ile Val Asn Ser Val Ile Cys
                   150
                                       155
Thr Gly Cys Thr Phe Ser Ile Ser Phe Ser Lys Ser Asn His Val Asp
                165
                                    170
Phe Phe Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ala Cys Ser Glu
           180
                                185
Thr Arg Pro Arg Glu Trp Val Ile Tyr Leu Ser Ala Phe Leu Val Ile
                            200
                                                205
Thr Thr Ser Ile Ser Val Ile Leu Thr Ser Tyr Leu Phe Ile Ile Gln
                       215
                                           220
Ser Val Leu Lys Ile Arg Thr Ala Gly Gly Arg Ala Lys Thr Phe Ser
                   230
                                       235
Thr Cys Ala Ser His Met Thr Ala Leu Thr Leu Phe Phe Gly Thr Leu
                                   250
Ile Phe Ile Tyr Leu Lys Gly Asn Met Gly Glu Ser Leu Glu Glu Asp
           260
                               265
Lys Ile Val Ser Ile Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro
                           280
                                               285
Met Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Glu Ala Leu Lys Lys
                       295
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Val Phe Asn Arg Ile Arg Val Ser Gln Ala Glu Xaa Leu Leu
<210> 1434
<211> 313
<212> PRT
<213> Unknown (H38g351 protein)
<223> Synthetic construct
<400> 1434
Met Leu Leu Thr Asp Arg Asn Thr Ser Gly Thr Thr Phe Thr Leu Leu
                             10
Gly Phe Ser Asp Tyr Pro Glu Leu Gln Val Pro Leu Phe Leu Val Phe
                               25
Leu Ala Ile Tyr Asn Val Thr Val Leu Gly Asn Ile Gly Leu Ile Val
                           40
                                              . 45
Ile Ile Lys Ile Asn Pro Lys Leu His Thr Pro Met Tyr Phe Phe Leu
                       55
                                           60
Ser Gln Leu Ser Phe Val Asp Phe Cys Tyr Ser Ser Ile Ile Ala Pro
                                       75
Lys Met Leu Val Asn Leu Val Val Lys Asp Arg Thr Ile Ser Phe Leu
Gly Cys Val Val Gln Phe Phe Phe Cys Thr Phe Val Val Thr Glu
           100
                               105
Ser Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys
                                               125
                            120
Asn Pro Leu Leu Tyr Thr Val Asp Met Ser Gln Lys Leu Cys Val Leu
                       135
                                           140
Leu Val Val Gly Ser Tyr Ala Trp Gly Val Ser Cys Ser Leu Glu Leu
                   150
                                       155
Thr Cys Ser Ala Leu Lys Leu Cys Phe His Gly Phe Asn Thr Ile Asn
               165
                                   170
His Phe Phe Cys Glu Phe Ser Ser Leu Ser Leu Ser Cys Ser Asp
                               185
                                                   190
           180
Thr Tyr Ile Asn Gln Trp Leu Leu Phe Phe Leu Ala Thr Phe Asn Glu
        195
                           200
                                               205
Ile Ser Thr Leu Leu Ile Val Leu Thr Ser Tyr Ala Phe Ile Val Val
                        215
                                           220
Thr Ile Leu Lys Met Arg Ser Val Ser Gly Arg Arg Lys Ala Phe Ser
                                       235
                   230
Thr Cys Ala Ser His Leu Thr Ala Ile Thr Ile Phe His Gly Thr Ile
               245
                                   250
Leu Phe Leu Tyr Cys Val Pro Asn Ser Lys Asn Ser Arg His Thr Val
                               265
Lys Val Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro
                           280
                                               285
Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Thr Val Thr Glu
                       295
                                          300
Ile Leu Asp Thr Lys Val Phe Ser Tyr
                   310
<210> 1435
<211> 312
<212> PRT
<213> Unknown (H38g352 protein)
<220>
<223> Synthetic construct
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```
<400> 1435
 Met Ala Glu Arg Asn Tyr Thr Val Val Thr Glu Phe Phe Leu Thr Ala
                                     10
 Phe Thr Glu His Leu Gln Trp Arg Val Pro Leu Phe Leu Ile Phe Leu
                                 25
 Ser Phe Tyr Leu Ala Thr Met Leu Gly Asn Thr Gly Met Ile Leu Leu
                             40
 Ile Arg Gly Asp Arg Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                        55
His Leu Ser Leu Val Asp Ile Cys Tyr Ser Ser Ala Ile Ile Pro Gln
                    70
                                        75
Met Leu Ala Val Leu Trp Glu His Gly Thr Thr Ile Ser Gln Ala Arg
                85
                                    90
Cys Ala Ala Gln Phe Phe Leu Phe Thr Phe Phe Ala Ser Ile Asp Cys
                                105
            100
Tyr Leu Leu Ala Ile Met Ala Tyr Asp Arg Tyr Thr Ala Val Cys Gln
                            120
                                                125
Pro Leu Leu Tyr Val Thr Ile Ile Thr Glu Lys Asp Arg Leu Gly Leu
                        135
                                            140
Val Thr Gly Ala Tyr Val Ala Gly Phe Phe Ser Ala Phe Val Arg Thr
                    150
                                        155
Val Thr Ala Phe Thr Leu Ser Phe Cys Gly Asn Asn Glu Ile Asn Phe
                165
                                    170
Ile Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ser Cys Gly Asp Ser
            180
                                185
                                                    190
Tyr Thr Gln Glu Val Val Ile Ile Val Phe Ala Leu Phe Val Met Pro
                            200
                                                205
Ala Cys Ile Leu Val Ile Leu Val Ser Tyr Leu Phe Ile Ile Val Ala
                        215
                                            220
Ile Leu Gln Ile His Ser Ala Gly Gly Arg Ala Lys Thr Phe Ser Thr
                    230
                                        235
Cys Ala Ser His Leu Thr Ala Val Ala Leu Phe Phe Gly Thr Leu Ile
                                    250
Phe Met Tyr Leu Arg Asp Asn Thr Gly Gln Ser Ser Glu Gly Asp Arg
                                265
                                                    270
Val Val Ser Val Leu Tyr Thr Val Val Thr Pro Met Leu Asn Pro Leu
                            280
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Thr Arg Lys Ala
                        295
Leu Ser Lys Ser Lys Pro Ala Arg
<210> 1436
<211> 254
<212> PRT
<213> Unknown (H38g353 protein)
<220>
<223> Synthetic construct
<400> 1436
Met Tyr Tyr Phe Leu Ser Met Leu Ser Ala Thr Asp Leu Gly Leu Ser
                                    10
Ile Ser Thr Leu Val Thr Met Leu Ser Ile Phe Trp Phe Asn Val Arg
            20
                                25
Glu Ile Ser Phe Asn Ala Cys Leu Ser His Met Phe Phe Ile Lys Phe
                            40
Phe Thr Val Met Glu Ser Ser Val Leu Leu Ala Met Ala Phe Asp Arg
                       55
                                           60
Phe Val Ala Val Ser Asn Pro Leu Arg Tyr Ala Met Ile Leu Thr Asp
```

```
Ser Arg Ile Ala Gln Ile Gly Val Ala Ser Val Ile Arg Gly Leu Leu
               85
                                    90
Met Leu Thr Pro Met Val Ala Leu Leu Ile Arg Leu Ser Tyr Cys His
            100
                               105
                                                    110
Ser Gln Val Leu His His Ser Tyr Cys Tyr His Pro Asp Val Met Lys
                            120
                                                125
Leu Ser Cys Thr Asp Thr Arg Ile Asn Ser Ala Val Gly Leu Thr Ala
                       135
                                            140
Met Phe Ser Thr Val Gly Val Asp Leu Leu Leu Ile Leu Leu Ser Tyr
                   150
                                        155
Val Leu Ile Ile Arg Thr Val Leu Ser Val Ala Ser Pro Glu Glu Arg
                                    170
               165
Lys Glu Thr Phe Ser Thr Cys Val Ser His Ile Val Ala Phe Ala Ile
            180
                              185
Tyr Tyr Ile Pro Leu Ile Ser Leu Ser Ile Val His Arg Phe Gly Lys
                           200
       195
Gln Ala Pro Ala Tyr Val His Thr Met Ile Ala Asn Thr Tyr Leu Leu
                      215
Ile Ser Pro Leu Met Asn Pro Val Ile Tyr Ser Val Lys Thr Lys Gln
                  230
                                       235
Ile Arg Arg Ala Val Ile Lys Ile Leu His Ser Lys Glu Thr
<210> 1437
<211> 188
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<212> PRT

<213> Unknown (H38g354 protein)

<220>

<223> Synthetic construct

<400> 1437

Met Asp Trp Glu Asn Cys Ser Ser Leu Thr Asp Phe Phe Leu Leu Gly Ile Thr Asn Asn Pro Glu Met Lys Val Thr Leu Phe Ala Val Phe Leu 20 25 Ala Val Tyr Ile Ile Asn Phe Ser Ala Asn Leu Gly Met Ile Val Leu . 35 40 Ile Arg Met Asp Tyr Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser 55 His Leu Ser Phe Cys Asp Leu Cys Tyr Ser Thr Ala Thr Gly Pro Lys 70 75 Met Leu Val Asp Leu Leu Ala Lys Asn Lys Ser Ile Pro Phe Tyr Gly 90 Cys Ala Leu Gln Phe Leu Val Phe Cys Ile Phe Ala Asp Ser Glu Cys 105 100 Leu Leu Ser Val Met Ala Phe Asp Arg Tyr Lys Ala Ile Ile Asn 120 125 Pro Leu Leu Tyr Thr Val Asn Met Ser Ser Arg Val Cys Tyr Leu Leu 135 140 Leu Thr Gly Val Tyr Leu Val Gly Ile Ala Asp Ala Leu Ile His Met 150 155 Thr Leu Ala Phe Arg Leu Cys Phe Cys Gly Ser Asn Glu Ile Asn His 165 170 Phe Phe Cys Asp Ile Pro Pro Leu Leu Leu Ser

185

<210> 1438

<211> 326

<212> PRT

<213> Unknown (H38g355 protein)

```
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(326)
<223> Xaa = Any Amino Acid
<400> 1438
Leu Asn Phe Ile Ile Phe Phe Arg Xaa Thr Ser Tyr Ile Glu Pro Met
                                    10
Ala Lys Arg Asn Leu Ser Thr Val Thr Glu Phe Ile Leu Val Val Phe
                                25
Thr Asp His Pro Glu Leu Ala Val Pro Leu Phe Leu Val Phe Leu Ser
                            40
Phe Tyr Leu Val Thr Phe Leu Gly Asn Gly Gly Met Ile Ile Leu Ile
Gln Val Asp Ala Gln Leu His Thr Pro Val Tyr Phe Phe Leu Ser His
                    70
                                        75
Leu Ala Phe Leu Asp Ala Cys Cys Ala Ser Val Ile Thr Pro Gln Ile
               85
                                    90
Leu Ala Thr Leu Ala Thr Asp Lys Thr Val Ile Ser Tyr Gly Cys Arg
           100
                               105
Ala Val Gln Phe Ser Phe Phe Thr Ile Cys Ala Gly Thr Glu Cys Tyr
                           120
                                               125
Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile Ser Asn Pro
                       135
Leu His Cys Asn Met Thr Met Thr Pro Gly Thr Cys Arg Val Phe Leu
                   150
                                       155
Ala Ser Ala Phe Ile Cys Gly Val Ser Gly Ala Ile Leu His Thr Thr
                                    170
Cys Thr Phe Thr Leu Ser Phe Cys Cys Asp Asn Gln Ile Asn Phe Phe
                                185
Phe Cys Asp Leu Pro Pro Leu Leu Lys Leu Ala Cys Ser Ser Met Thr
                            200
                                                205
Gln Thr Glu Ile Val Ile Leu Leu Cys Ala Lys Cys Met Phe Leu Ala
                        215
                                            220
Asn Val Met Val Ile Leu Ile Cys Tyr Met Leu Ile Ile Arg Ala Ile
                                        235
                    230
Leu Arg Val Lys Ser Ala Gly Gly Xaa Ala Lys Thr Phe Ser Thr Cys
                                    250
Thr Ser His Leu Thr Thr Val Val Leu Phe Phe Gly Thr Leu Ala Phe
            260
                                265
Met Tyr Gln Arg Ser Asn Ser Ala Lys Ser Ser Glu Glu Asp Lys Ile
                                               285
                           280
Val Ser Val Phe Tyr Thr Val Ile Ile Pro Met Leu Asn Pro Leu Ile
                      295
                                            300
Tyr Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Phe Gly Lys Leu Val
                   310
Gly Lys Phe Gln Phe Pro
                325
<210> 1439
<211> 328
<212> PRT
<213> Unknown (H38g356 protein)
<223> Synthetic construct
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730

<221> VARIANT

<222> (1) ... (328) <223> Xaa = Any Amino Acid <400> 1439 Met Leu Pro Ser Gln Thr Tyr Val Asn Ile Ser Phe Phe Gln Pro Pro 10 Ala Leu Leu Met Ile Gly Ile Pro Gly Leu Glu Ala Val His Gly Trp 25 Leu Ala Ile Pro Phe Ser Ser Met Tyr Thr Val Ala Leu Pro Gly Asn 40 Cys Leu Ile Leu Leu Ala Val Lys Arg Asn Pro Ser Leu His Gln Pro 55 Met Cys Tyr Phe Leu Ser Met Leu Ala Leu Pro Lys Ala Gly Leu Thr 75 Leu Ser Thr Leu Pro Ile Thr Leu Ala Val Leu Trp Phe Asp His Arg 90 Leu Met Gly Phe Asn Ala Cys Leu Val Gln Met Phe Phe Leu His Ser 105 100 Ser Val Val Glu Ser Ser Val Leu Leu Ala Ile Ser Phe Asp His Phe 120 125 Val Ala Ile Ser Asn Pro Leu His Tyr Ala Ala Val Leu Thr Asn Ser 135 Val Ile Ile Arg Ile Gly Leu Ala Ile Val Ala Arg Ser Tyr Leu Val 155 150 Pro Leu Pro Val Pro Phe Pro Val Lys Ser Leu Asn Phe Cys Pro Gly 170 165 Asp Asn Ile Pro Ser His Ser Phe Cys Phe His Pro Asp Val Met Arg 180 185 Arg Ala Cys Ala Asp Ile Thr Ile Asn Ile Cys Tyr Gly Val Tyr Val 205 200 Val Val Ser Thr Gly Gly Leu Asp Ser Leu Leu Ile Phe Leu Ser Tyr 215 220 Thr Phe Ile Leu His Thr Val Met Gly Leu Ala Ala Pro Arg Glu Arg 230 235 Ile Trp Ala Leu Asn Thr Cys Val Ser His Ile Pro Ala Val Phe Val 250 245 Phe Phe Ile Pro Gly Ile Thr Val Ser Met Ile His His Phe Gly Arg 265 270 260 His Leu Pro His Ile Val His Ala Leu Val Thr Tyr Val Tyr Leu Val 285 275 280 Met Pro Ser Val Leu His Pro Ile Ile Tyr Ser Met Lys Ser Lys Pro 295 300 Ile Arg Glu Ala Ile Leu Arg Met Leu Met Gly Arg Ser Gln Gly Xaa 310 315 Xaa Asn Tyr Lys Ile Leu Xaa Gly . 3... 325 <210> 1440 <211> 311 <212> PRT <213> Unknown (H38g357 protein) <220> <223> Synthetic construct <400> 1440 Met Gly Lys Glu Asn Cys Thr Thr Val Ala Glu Phe Ile Leu Leu Gly

10

Leu Ser Asp Val Pro Glu Leu Arg Val Cys Leu Phe Leu Leu Phe Leu 20 25 30

Leu Ile Tyr Gly Val Thr Leu Leu Ala Asn Leu Gly Met Ile Ala Leu

1 .

```
40
 Ile Gln Val Ser Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                         55
 His Leu Ser Ser Val Asp Phe Cys Tyr Ser Ser Ile Ile Val Pro Lys
                    70
                                         75
 Met Leu Ala Asn Ile Phe Asn Lys Asp Lys Ala Ile Ser Phe Leu Gly
                 85
                                     90
 Cys Met Val Gln Phe Tyr Leu Phe Cys Thr Cys Val Val Thr Glu Val
            100
                                 105
 Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys Asn
                            120
                                                 125
 Pro Leu Leu Tyr Thr Val Thr Met Ser Trp Lys Val Arg Val Glu Leu
                        135
                                             140
Ala Ser Cys Cys Tyr Phe Cys Gly Thr Val Cys Ser Leu Ile His Leu
                    150
                                         155
Cys Leu Ala Leu Arg Ile Pro Phe Tyr Arg Ser Asn Val Ile Asn His
                165
                                     170
Phe Phe Cys Asp Leu Pro Pro Val Leu Ser Leu Ala Cys Ser Asp Ile
            180
                                185
Thr Val Asn Glu Thr Leu Leu Phe Leu Val Ala Thr Leu Asn Glu Ser
                            200
                                                 205
Val Thr Ile Met Ile Ile Leu Thr Ser Tyr Leu Leu Ile Leu Thr Thr
                        215
                                             220
Ile Leu Lys Met Gly Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr
                    230
                                        235
Cys Ala Ser His Leu Thr Ala Ile Thr Val Phe His Gly Thr Val Leu
                245
                                    250
Ser Ile Tyr Cys Arg Pro Ser Ser Gly Asn Ser Gly Asp Ala Asp Lys
            260
                                265
Val Ala Thr Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Ser Val
                            280
                                                 285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Arg Lys Val
                        295
Met Gly Ser Lys Ile His Ser
<210> 1441
<211> 209
<212> PRT
<213> Unknown (H38g358 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1) ... (209)
<223> Xaa = Any Amino Acid
<400> 1441
Cys His Pro Pro Leu Arg Trp Gly Ser Xaa Glu Pro Ala Glu Glu Glu
                                    10
Gly Leu Ala Leu Ser Ser Arg Phe Phe Phe Leu Ser Val Leu Asp
                                25
Ala Gln Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Gln Asp
                            40
Ala Glu Ile Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu
                        55
Ala Cys Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala
                   70
                                        75
Val Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr
                                    90
```

```
Lys Ile Val Ser Ser Ile Leu Ser Val Ser Ser Arg Gly Gln Tyr
           100
                               105
Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe
                                                125
                            120
       115
Tyr Gly Thr Gly Val Gly Gly Tyr Phe Ser Ser Asp Val Ser Ser Ser
                       135
                                            140
Pro Arg Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Ile Thr Pro
                    150
                                       155
Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg His Ile Lys Ser
                                   170
               165
Val Leu Arg Arg Pro His Ser Ser Thr Val Gln Ser Pro Cys Leu Leu
                                185
           180
Asn Cys Ser Ile Pro Phe Val Val Trp Val Asn Lys Gly Ser Lys Val
                           200
<210> 1442
<211> 212
<212> PRT
<213> Unknown (H38g359 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1) ... (212)
<223> Xaa = Any Amino Acid
<400> 1442
Ile Xaa Leu Lys Leu Ile Phe Gly Asn Pro Arg Xaa Xaa Xaa Ile Phe
Arg Cys Val Tyr Asp Tyr Leu Trp Asp Cys Gln Pro Leu Leu Tyr Asp
            20
                               25
Thr Ile Thr Thr Leu Lys Met Ser Gly Arg Ser Trp Xaa Leu His Ile
                            40
Val Glu Gly Leu Thr Asn Val Ile Gln Cys Ile His Phe Thr Cys Ser
                       55
Leu Ser Phe Cys Gly Thr Ser Ser Ile Gly Phe Thr Leu Cys Asp Leu
                    70
                                        75
Pro Leu Leu Thr Leu Asn Cys Gly Asp Ser Phe Leu Gln Gln Leu
                                    90
Leu Ile Phe His Phe Ala Leu Tyr Met Ile Leu Thr Arg Leu Val Leu
                               105
           100
Ile Leu Phe Ser Asp Leu Phe Ile Ser Lys Ala Ile Xaa Thr Pro Ala
                           120
                                                125
Asn Gln Val Ser Arg Gln Arg Phe Leu Asn Leu Phe Leu Pro Leu Pro
                       135
                                            140
His Ala Glu Leu Gln Phe Gly Xaa Leu Leu Arg Leu Gln Leu Xaa Ser
                   150
                                       155
Met Cys Ala Ala Val Gly Lys Ser Leu Thr Gly Glu Arg Ala Val Thr
               165
                                   170
Met Phe Xaa Thr Glu Xaa Thr Pro Gly Xaa Pro Phe Gln Phe Tyr Ser
                               185
Leu Arg Asn Lys Lys Ala Lys Glu Ala Leu Arg Lys Gly Leu Asn Lys
                            200
       195
Ala Lys Leu Phe
   210
<210> 1443
<211> 315
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<212> PRT
 <213> Unknown (H38g360 protein)
 <220>
 <223> Synthetic construct
 <400> 1443
 Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
                                    10
 Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
            20
                                25
 Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
                             40
 Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
                        55
Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
                    70
                                        75
Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
                85
                                    90
Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
                                105
Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
                            120
                                                125
Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
                        135
                                            140
Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
                    150
                                        155
Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
                                    170
Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
            180
                                185
                                                    190
Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
                            200
Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
                        215
                                            220
Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
                    230
                                        235
Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
                245
                                    250
Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
            260
                                265
Val Val Met Gly Asp Ile Tyr Leu Leu Pro Pro Val Ile Asn Pro
                            280
                                                285
Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
                        295
Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln
                    310
<210> 1444
<211> 278
<212> PRT
<213> Unknown (H38g361 protein)
<220>
<223> Synthetic construct
<400> 1444
Met Tyr Ala Leu Ala Thr Leu Gly Asn Leu Thr Ile Val Leu Ile Ile
            5
                                   10
Arg Val Glu Arg Arg Leu His Glu Pro Met Tyr Leu Phe Leu Ala Met
                               25
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Leu Ser Thr Ile Asp Leu Val Leu Ser Ser Ile Thr Met Pro Lys Met
                            40
Ala Ser Leu Phe Leu Met Gly Ile Glu Ile Glu Phe Asn Ile Cys
Leu Ala Gln Met Phe Leu Ile His Ala Leu Ser Ala Val Glu Ser Ala
                   70
Val Leu Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile Cys His Pro
                85
                                    90
Leu Arg His Ala Ser Val Leu Thr Gly Cys Thr Val Ala Lys Ile Gly
            100
                                105
Leu Ser Ala Leu Thr Arg Gly Phe Val Phe Phe Phe Pro Leu Pro Phe
                           120
                                               125
Ile Leu Lys Trp Leu Ser Tyr Cys Gln Thr His Thr Val Thr His Ser
                        135
                                            140
Phe Cys Leu His Gln Asp Ile Met Lys Leu Ser Cys Thr Asp Thr Arg
                    150
                                        155
Val Asn Val Val Tyr Gly Leu Phe Ile Ile Leu Ser Val Met Gly Val
                                    170
Asp Ser Leu Phe Ile Gly Phe Ser Tyr Ile Leu Ile Leu Trp Ala Val
            180
                                185
Leu Glu Leu Ser Ser Arg Arg Ala Ala Leu Lys Ala Phe Asn Thr Cys
                           200
                                                205
Ile Ser His Leu Cys Ala Val Leu Val Phe Tyr Val Pro Leu Ile Gly
                       215
                                            220
Leu Ser Val Val His Arg Leu Gly Gly Pro Thr Ser Leu Leu His Val
                   230
                                       235
Val Met Ala Asn Thr Tyr Leu Leu Pro Pro Val Val Asn Pro Leu
               245
                                   250
Val Tyr Gly Ala Lys Thr Lys Glu Ile Cys Ser Arg Val Leu Cys Met
                               265
           260
Phe Ser Gln Gly Gly Lys
       275
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<210> 1445

<211> 319

<212> PRT

<213> Unknown (H38g362 protein)

<220>

<223> Synthetic construct

<400> 1445

Met Leu Gly Pro Ala Tyr Asn His Thr Met Glu Thr Pro Ala Ser Phe 10 Leu Leu Val Gly Ile Pro Gly Leu Gln Ser Ser His Leu Trp Leu Ala 25 Ile Ser Leu Ser Ala Met Tyr Ile Thr Ala Leu Leu Gly Asn Thr Leu 40 Ile Val Thr Ala Ile Trp Met Asp Ser Thr Arg His Glu Pro Met Tyr 55 60 Cys Phe Leu Cys Val Leu Ala Ala Val Asp Ile Val Met Ala Ser Ser 70 75 Val Val Pro Lys Met Val Ser Ile Phe Cys Ser Gly Asp Ser Ser Ile 90 Ser Phe Ser Ala Cys Phe Thr Gln Met Phe Phe Val His Leu Ala Thr 105 Ala Val Glu Thr Gly Leu Leu Thr Met Ala Phe Asp Arg Tyr Val 120 Ala Ile Cys Lys Pro Leu His Tyr Lys Arg Ile Leu Thr Pro Gln Val 135 140 Met Leu Gly Met Ser Met Ala Val Thr Ile Arg Ala Val Thr Phe Met

```
145
                    150
                                        155
Thr Pro Leu Ser Trp Met Met Asn His Leu Pro Phe Cys Gly Ser Asn
               165
                                   170
Val Val Val His Ser Tyr Cys Lys His Ile Ala Leu Ala Arg Leu Ala
           180
                               185
Cys Ala Asp Pro Val Pro Ser Ser Leu Tyr Ser Leu Ile Gly Ser Ser
                           200
Leu Met Val Gly Ser Asp Val Ala Phe Ile Ala Ala Ser Tyr Ile Leu
                        215
                                           220
Ile Leu Arg Ala Val Phe Asp Leu Ser Ser Lys Thr Ala Gln Leu Lys
                    230
                                       235
Ala Leu Ser Thr Cys Gly Ser His Val Gly Val Met Ala Leu Tyr Tyr
                                    250
                245
Leu Pro Gly Met Ala Ser Ile Tyr Ala Ala Trp Leu Gly Gln Asp Ile
                                265
Val Pro Leu His Thr Gln Val Leu Leu Ala Asp Leu Tyr Val Ile Ile
                            280
                                                285
Pro Ala Thr Leu Asn Pro Ile Ile Tyr Gly Met Arg Thr Lys Gln Leu
                        295
Leu Glu Gly Ile Trp Ser Tyr Leu Met His Phe Leu Phe Asp His
                    310
<210> 1446
<211> 322
<212> PRT
<213> Unknown (H38g363 protein)
<223> Synthetic construct
<400> 1446
Met Asn Glu Thr Asn His Ser Trp Val Thr Glu Phe Val Leu Leu Gly
                                   10
Leu Ser Ser Ser Arg Glu Leu Gln Pro Phe Leu Phe Leu Ile Phe Ser
           20
                                25
Leu Leu Tyr Leu Ala Ile Leu Leu Gly Asn Phe Leu Ile Ile Leu Thr
                           40
                                                45
Val Thr Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ala
                                           60
Asn Leu Ser Phe Ile Asp Val Cys Val Ala Ser Ser Ala Thr Pro Lys
Met Ile Ala Asp Phe Leu Val Glu His Lys Thr Ile Ser Phe Asp Ala
                                    90
His Leu Ala Gln Ile Phe Phe Val His Leu Phe Thr Gly Ser Glu Met
                               105
Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
                           120
                                               125
Pro Pro His Tyr Met Thr Ile Met Ser Cys Cys Val Cys Val Leu
                       135
                                           140
Val Leu Ile Ser Trp Phe Val Gly Phe Ile His Thr Thr Ser Gln Leu
                   150
                                       155
Ala Phe Thr Val Asn Leu Pro Phe Cys Gly Pro Asn Lys Val Asp Ser
                                   170
Phe Phe Cys Asp Leu Pro Leu Ala Thr Lys Leu Ala Cys Ile Asp Thr
                               185
Tyr Val Val Ser Leu Leu Ile Val Ala Asp Ser Gly Phe Leu Ser Leu
                           200
                                               205
Ser Ser Phe Leu Leu Val Val Ser Tyr Thr Val Ile Leu Val Thr
                      215
                                           220
Val Arg Asn Arg Ser Ser Val Ser Met Val Lys Ala His Ser Thr Leu
                   230
                                       235
```

Thr Ala His Ile Thr Val Val Thr Leu Phe Phe Gly Ser Cys Ile Phe 245 | 255 | 11e Tyr Val Trp Pro Phe Ser Ser Tyr Ser Val Asp Lys Val Leu Ala 260 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270

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<211> 322

<212> PRT

<213> Unknown (H38g364 protein)

<220>

<223> Synthetic construct

<400> 1447

Met Leu Gly Pro Ala Tyr Asn His Thr Met Glu Thr Pro Ala Ser Phe 10 Leu Leu Val Gly Ile Pro Gly Leu Gln Ser Ser His Leu Trp Leu Ala 20 25 Ile Ser Leu Ser Ala Met Tyr Ile Ile Ala Leu Leu Gly Asn Thr Ile 40 45 Ile Val Thr Ala Ile Trp Met Asp Ser Thr Arg His Glu Pro Met Tyr 55 Cys Phe Leu Cys Val Leu Ala Ala Val Asp Ile Val Met Ala Ser Ser 70 75 Val Val Pro Lys Met Val Ser Ile Phe Cys Ser Gly Asp Ser Ser Ile 90 85 Ser Phe Ser Ala Cys Phe Thr Gln Met Phe Phe Val His Leu Ala Thr 105 100 Ala Val Glu Thr Gly Leu Leu Thr Met Ala Phe Asp Arg Tyr Val 120 125 Ala Ile Cys Lys Pro Leu His Tyr Lys Arg Ile Leu Thr Pro Gln Val 135 140 Met Leu Gly Met Ser Met Ala Ile Thr Ile Arg Ala Ile Ile Ala Ile 150 155 Thr Pro Leu Ser Trp Met Val Ser His Leu Pro Phe Cys Gly Ser Asn 165 170 Val Val His Ser Tyr Cys Glu His Ile Ala Leu Ala Arg Leu Ala 185 190 Cys Ala Asp Pro Val Pro Ser Ser Leu Tyr Ser Leu Ile Gly Ser Ser 200 205 195 Leu Met Val Gly Ser Asp Val Ala Phe Ile Ala Ala Ser Tyr Ile Leu 215 220 Ile Leu Lys Ala Val Phe Gly Leu Ser Ser Lys Thr Ala Gln Leu Lys 230 235 Ala Leu Ser Thr Cys Gly Ser His Val Gly Val Met Ala Leu Tyr Tyr 245 250 Leu Pro Gly Met Ala Ser Ile Tyr Ala Ala Trp Leu Gly Gln Asp Val 265 270 Val Pro Leu His Thr Gln Val Leu Leu Ala Asp Leu Tyr Val Ile Ile 280 285 Pro Ala Thr Leu Asn Pro Ile Ile Tyr Gly Met Arg Thr Lys Gln Leu 295 300 Arg Glu Arg Ile Trp Ser Tyr Leu Met His Val Leu Phe Asp His Ser

315

320

310

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Asn Leu
 <210> 1448
 <211> 314
 <212> PRT
 <213> Unknown (H38g365 protein)
 <220>
 <223> Synthetic construct
 <400> 1448
 Met Glu Gly Phe Asn Tyr Ser Arg Val Ser Glu Phe Met Leu Leu Gly
                                    10
 Leu Thr Asp Ser Pro Glu Leu Gln Ile Phe Phe Ser Val Val Phe Ser
            20
                                25
Val Phe Tyr Leu Met Thr Met Leu Gly Asn Cys Leu Ile Leu Leu Thr
        35
                            40
Val Leu Ser Thr Ser His Leu His Ser Arg Met Tyr Phe Leu Leu Ser
                        55
                                            60
Asn Met Ser Ile Asp Met Cys Leu Ser Ser Phe Ala Thr Pro Lys Met
                    70
                                        75
Ile Met Asp Phe Phe Ala Leu Arg Lys Thr Ile Ser Phe Glu Gly Cys
                                    90
Ile Ser Gln Ile Phe Phe Leu His Leu Phe Asn Gly Thr Glu Ile Val
           100
                                105
Leu Leu Ile Ser Met Ser Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro
                            120
Leu His Tyr Ser Thr Ile Met Ser Gln Arg Val Cys Val Glu Leu Val
                        135
                                            140
Ala Val Ser Cys Trp Thr Val Gly Phe Leu His Thr Met Ser Gln Leu
                    150
                                        155
Val Phe Ala Leu Tyr Leu Pro Phe Cys Val Pro Asn Val Val Asp Ser
                165
                                    170
Phe Phe Cys Asp Leu Pro Leu Val Ile Gln Leu Ala Cys Ile Asp Ile
                                185
                                                    190
Tyr Val Leu Gly Thr Ser Met Ile Ser Thr Ser Gly Val Ile Ala Leu
                            200
                                                205
Ile Ser Phe Leu Leu Leu Thr Ser Tyr Ile Ile Val Leu Asn Ile
                        215
                                            220
Val Arg Asp Tyr Ser Ser Thr Gly Ser Ser Lys Ala Leu Ser Thr Cys
                   230
                                        235
Thr Ala His Phe Ile Val Val Leu Met Phe Phe Gly Pro Cys Ile Phe
                245
                                   250
Ile Tyr Val Trp Pro Ser Thr Asn Phe Leu Val Asp Lys Ile Leu Ser
                               265
Val Phe Tyr Thr Ile Phe Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr
       275
                                               285
                            280
Leu Arg Asn Gln Glu Val Lys Thr Ala Met Lys Lys Lys Leu Asn Ile
                       295
Gln Tyr Phe Ser Leu Gly Lys Thr Ala Pro
                   310
<210> 1449
<211> 317
<212> PRT
<213> Unknown (H38g366 protein)
<220>
<223> Synthetic construct
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<400> 1449
Met Leu Thr Phe His Asn Val Cys Ser Val Pro Ser Ser Phe Trp Leu
                                    10
Thr Gly Ile Pro Gly Leu Glu Ser Leu His Val Trp Leu Ser Ile Pro
Phe Gly Ser Met Tyr Leu Val Ala Val Val Gly Asn Val Thr Ile Leu
                            40
Ala Val Val Lys Ile Glu Arg Ser Leu His Gln Pro Met Tyr Phe Phe
Leu Cys Met Leu Ala Ala Ile Asp Leu Val Leu Ser Thr Ser Thr Ile
                    70
Pro Lys Leu Leu Gly Ile Phe Trp Phe Gly Ala Cys Asp Ile Gly Leu
                                    90
Asp Ala Cys Leu Gly Gln Met Phe Leu Ile His Cys Phe Ala Thr Val
           100
                               105
Glu Ser Gly Ile Phe Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
                            120
                                                125
Cys Asn Pro Leu Arg His Ser Met Val Leu Thr Tyr Thr Val Val Gly
                        135
                                            140
Arg Leu Gly Leu Val Ser Leu Leu Arg Gly Val Leu Tyr Ile Gly Pro
                    150
                                        155
Leu Pro Leu Met Ile Arg Leu Arg Leu Pro Leu Tyr Lys Thr His Val
                165
                                    170
                                                        175
Ile Ser His Ser Tyr Cys Glu His Met Ala Val Val Ala Leu Thr Cys
                                185
            180
Gly Asp Ser Arg Val Asn Asn Val Tyr Gly Leu Ser Ile Gly Phe Leu
                            200
                                                205
Val Leu Ile Leu Asp Ser Val Ala Ile Ala Ala Ser Tyr Val Met Ile
                        215
Phe Arg Ala Val Met Gly Leu Ala Thr Pro Glu Ala Arg Leu Lys Thr
                   230
                                        235
Leu Gly Thr Cys Ala Ser His Leu Cys Ala Ile Leu Ile Phe Tyr Val
                                    250
                245
Pro Ile Ala Val Ser Ser Leu Ile His Arg Phe Gly Gln Cys Val Pro
            260
                                265
Pro Pro Val His Thr Leu Leu Ala Asn Phe Tyr Leu Leu Ile Pro Pro
                            280
                                                285
Ile Leu Asn Pro Ile Val Tyr Ala Val Arg Thr Lys Gln Ile Arg Glu
                       295
                                            300
Ser Leu Leu Gln Ile Pro Arg Ile Glu Met Lys Ile Arg
                   310
<210> 1450
<211> 101
<212> PRT
<213> Unknown (H38g367 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(101)
<223> Xaa = Any Amino Acid
<400> 1450
Gln Met Leu Thr Asp Trp Trp Gly Pro Asn Arg Thr Thr Ser Tyr Val
                                    10
Asn Cys Thr Ile Gln Phe Leu Val Ser Leu Xaa Cys Met Cys His Tyr
                                25
Ile Ile Ser Tyr Asn Tyr Phe Ile Ile Ile Cys His Pro Leu Xaa Tyr
```

```
40
 Leu Leu Ile Met Asn Leu Tyr Leu Leu Leu Asn Leu Thr Leu Ile Leu
                        55
 Glu Gly Xaa Phe Ile His Phe Trp His His Val Tyr Ser Ile Leu Lys
                    70
                                        75
 Ile Pro Arg Met Lys Lys Asn Leu Gln Ile Ile Pro Leu Ile Gly
                85
                                    90
Cys Cys Leu Ala Glu
            100
<210> 1451
<211> 169
 <212> PRT
 <213> Unknown (H38g368 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(169)
<223> Xaa = Any Amino Acid
<400> 1451
Asn Ser Glu Ser Lys His Phe Leu Leu Lys Leu Cys Ser Met Phe
 1
                                    10
Ala Val Thr Phe Leu Ser Leu Ile Leu Ser Gly Lys Gly Leu Gln Phe
            20
                                25
Pro Phe Tyr Phe Ser Glu Cys Asn Cys Lys Val Ser Asp Val Phe Thr
        35
                            40
Val Glu Thr Arg Glu Gln Glu Ala Pro Met Lys Thr Thr Gly Phe Tyr
                        55
                                            60
Gly Gly Ile Met Val Trp Xaa Val Glu Ala Cys Tyr Ser Ser Cys Ile
                    70
                                        75
Ser Leu Gly Ser Asn Pro Asp Tyr Thr Ala Tyr Gly Ala Leu Thr Ala
                85
                                    90
Arg Xaa Pro Gln Glu Phe Leu Cys Trp Xaa Asn Arg Phe Ile Ile Met
            100
                                105
                                                    110
Pro Val Asn Leu Lys Met Leu Xaa Val Lys Thr Ile Trp Cys Phe Ser
                            120
                                                125
Arg Thr Gln Xaa Ser Leu Thr Val Ile Thr Ile Phe Pro Leu Pro Thr
                        135
                                            140
Phe Asn Lys Xaa Ile Ile Tyr Ile Tyr Xaa Thr Lys Glu Ile Xaa Ser
                   150
                                        155
Cys Phe Ser Glu Thr Thr Gln Phe Tyr
                165
<210> 1452
<211> 279
<212> PRT
<213> Unknown (H38g369 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(279)
<223> Xaa = Any Amino Acid
<400> 1452
Leu Pro Pro Leu Phe Phe Arg Val Phe Val Ile Leu Phe Val Ser Leu
                                    10
```

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Leu Phe Val Lys Leu Cys Ile Leu Phe Leu Ile Ile Leu Leu Val Lys
Phe Leu Leu Lys Thr Lys Ile Ala Met Thr Tyr Phe Thr Tyr Leu Ser
Asn Tyr Lys Leu Lys Ala Xaa Asn Ser Ile Asp Phe His Ile His Met
Phe Val Tyr Val Tyr Ile Met Asn Lys Leu Val His Leu Lys Tyr Glu
                    70
Thr Leu Thr Ser Leu Pro Phe Phe Trp Asn Ser Leu Gly Cys Leu Asp
                                    90
                85
Thr Ser Xaa Phe Cys Phe Thr Phe Tyr Val Thr Tyr Ser Ser Leu Ile
                                105
            100
Val Ile Asn Met Leu Tyr Phe Leu Ala Val Leu Ala Lys Ser Ser Phe
                            120
Ile Leu Cys Phe Asn Ser Leu Ser Val Asn Cys Asp Thr Phe Cys Val
                       135
                                           140
Trp Leu Ser Cys Phe Gly Ile Val Tyr Leu Asp Val His Pro Ile Ala
           150
                                       155
His Cys Leu Phe Leu Lys Arg Leu Phe Lys Cys Tyr Val Phe Leu Xaa
                                   170
                165
Ser Leu Val Phe Cys Phe Met His Ala Leu Leu Pro Xaa Thr Leu Lys
                                185
            180
Asn Thr Cys Phe Asp Val Leu Phe Ile Phe Ile Cys Glu Lys Ser Leu
                            200
        195
Leu Ala Asn Met Ser Phe Val Thr Ile Val Ser Ser Leu Ile Leu Leu
                        215
                                            220
Thr Asn Xaa Glu Ile Ile Ser Phe Ser Ser Val Ile Leu Cys Gly Thr
                    230
                                        235
Ile His Leu Asn Leu Ser Ser Phe Phe Leu His Arg Phe Phe Ile Phe
               245
                                    250
Phe Phe Cys Leu Lys Ser Ala Asn Ile Tyr Leu Asn Val Asp Leu Leu
                                265
Ser Ile Ile Leu Thr Leu Val
        275
<210> 1453
<211> 154
<212> PRT
<213> Unknown (H38g370 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(154)
<223> Xaa = Any Amino Acid
<400> 1453
Cys Thr Met Cys Val Trp Leu Leu Ala Xaa Asp Arg Gln Ile His Ile
                                    10
His Ser His Ser Asn Lys Pro Lys Gln Val Thr His Pro Met Cys Phe
                                25
```

```
105
 Ser Glu Ile Leu Ser Met Ile Tyr Phe Met Gly Thr Lys Lys Asn Glu
                            120
                                                125
 Xaa Lys Pro Arg Lys Lys Asp Cys Glu Ser His Xaa Lys Gly Leu Glu
                        135
Xaa Met Gly Gln Ile Ile Leu Phe Tyr
                    150
<210> 1454
<211> 186
<212> PRT
<213> Unknown (H38g371 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(186)
<223> Xaa = Any Amino Acid
<400> 1454
Pro Ala His Pro Arg Ser Pro His His Pro Leu Phe Pro Pro Tyr Ile
                                    10
Tyr Leu Lys Asn Phe Phe Pro Thr Ile Phe Pro Gln Asn Leu Leu Ser
                                25
Leu Leu Phe Thr Thr Val Phe Pro Pro Pro Pro Thr Pro Asn Ile Phe
                            40
Ser Pro Pro Ser Phe Pro His Cys Leu Phe Cys Asn Thr Phe Ser Cys
                        55
                                            60
Ser Leu Ile Leu Tyr Phe Pro Leu Ala Leu Thr Thr Leu Phe Thr Pro
                    70
                                        75
Pro Ser Thr Pro Lys Leu Phe Ser Pro Ser Tyr Arg Ser Ser His Thr
                85
                                    90
Ala Val Ser Val Ala Ala Thr Asn Arg Ser Glu Ala Ser Cys Ala Cys
            100
                                105
Arg Ser His Ser Leu Gln His Ala Ala Val Ala Ser Pro Cys Pro Gly
                            120
                                                125
Pro Leu Ser Arg Glu Arg Ser Ser Pro Ala Arg Arg His Ala Xaa Ala
                        135
                                            140
Xaa Asn Gly Leu Thr Pro Leu Leu Ala Pro Phe Ile Tyr Xaa Gly Tyr
                   150
                                        155
Ala Tyr Glu Val Pro Gly Leu Leu Phe Gln Asp Trp Val Arg Glu Asn
               165
                                    170
Ala Glu Ala Tyr Ser Asp Trp Thr Leu Leu
            180
<210> 1455
<211> 142
<212> PRT
<213> Unknown (H38g372 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(142)
<223> Xaa = Any Amino Acid
<400> 1455
Tyr Ile Glu Met Asp Asn Tyr Phe Leu Thr Xaa Leu Xaa Arg Tyr Leu
```

```
Leu Phe Phe His Phe Ile Ile Ser Thr Gln Tyr Phe Gly Ile Lys Lys
                                25
Phe Ile Leu Thr Ser Leu Leu Ala Tyr Cys Phe Trp Met Phe Ser Ile
                                                45
                            40
Thr Lys Phe Leu Thr Tyr Gly Leu Lys Trp Leu Leu Ile Pro Asp Cys
                        55
Xaa Ser Trp Tyr Gln His Ala Xaa Phe Asn Pro Xaa Gln Ile Leu Phe
                    70
Leu Gln Asn Ser Xaa Ser Trp Leu Glu Val Tyr Phe Tyr Leu Phe Leu
Leu Phe Ala Val Pro Phe Asp Lys Ile Ile Phe Leu Ser Xaa Lys Met
            100
                                105
Tyr Leu Asn Lys Xaa Ile Ile Ser Val Leu Val Gly Thr Arg Trp Thr
                                                 125
                            120
Phe Gln Arg Cys Val His Thr Leu Cys Ile Leu Ser Leu Phe
                        135
<210> 1456
<211> 82
<212> PRT
<213> Unknown (H38g373 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(82)
<223> Xaa = Any Amino Acid
<400> 1456
Asn Val Phe Arg Xaa Phe Leu Asp Phe Cys Arg Asp Ser Asp Ile His
                                    10
Arg Ala Tyr Leu Cys Ile Leu Ser Ser Xaa Leu Arg Phe Ser Val Leu
                                25
Gly Ile Phe Xaa Gly Arg Ala Met Asn Ile Leu Ile Gly Leu Thr Lys
                            40
                                                 45
Val Leu Lys Cys Pro Ile Leu Cys Val Val Phe Asn His Thr Cys Ile
                       55
                                            60
Leu Ile Thr Thr Leu Ala Val Ile Ala Tyr Arg Phe Arg Gln Ser Gly
65
Tyr Ser
<210> 1457
<211> 207
<212> PRT
<213> Unknown (H38g374 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(207)
<223> Xaa = Any Amino Acid
<400> 1457
Glu Ile Ile Leu Ile Gly Ile Ser Leu Lys Leu Tyr Leu Val Val Phe
                                    10
Thr Ile Ile Lys Ile Lys Xaa His Ser Ile Gly Leu Ser Ser Asn Lys
Asn Met Arg Leu Pro Ser Asp Phe Phe Leu Ser Gln Ala Ile Tyr Tyr
```

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40
Xaa Trp Ala Leu Met Cys Val Leu Glu Asn Lys Thr Tyr Ala Ser Val
                        55
Arg Leu Val Xaa Arg Phe Gly Trp Xaa Lys Leu Ala Asn Xaa Met Ser
                                        75
Val Leu Tyr Leu Glu Ala Asn Leu Gly Asn Met Asp Asn Ala Leu Leu
                                     90
Lys Xaa Leu Lys Arg Asn Tyr Phe Val Phe Val Phe Thr Ser Phe Leu
                                105
Phe Gly Cys Ile Ala Phe Lys Xaa Lys Glu Ile Phe Tyr Pro Tyr Thr
                            120
                                                125
Ser Ile Cys Ile Tyr His Leu Leu Met Met Glu Arg Lys Val Ser Cys
                        135
                                            140
Leu Thr Leu Ile Cys Leu Ala Xaa Asp Leu Xaa His Phe Xaa Cys Ser
                   150
                                        155
Leu Val Thr Val Leu Ser Leu Glu Cys Xaa Gln Leu Asp Ile Cys Asn
                165
                                    170
Val Val Thr Tyr Phe Asn Thr Met Val Xaa Ser Thr Thr Gly Ser Asn
                                185
                                                    190
Ser Xaa Thr Pro Asn His Ser Val Leu Ile Cys Asn Met Leu Lys
        195
                            200
<210> 1458
<211> 313
<212> PRT
<213> Unknown (H38g375 protein)
<220>
<223> Synthetic construct
<400> 1458
Met Arg Asn Leu Ser Gly Gly His Val Glu Glu Phe Val Leu Val Gly
                                    10
Phe Pro Thr Thr Pro Pro Leu Gln Leu Leu Leu Phe Val Leu Phe Phe
            20
                                25
Ala Ile Tyr Leu Leu Thr Leu Leu Glu Asn Ala Leu Ile Val Phe Thr
        35
                            40
Ile Trp Leu Ala Pro Ser Leu His Arg Pro Met Tyr Phe Phe Leu Gly
                        55
                                            60
His Leu Ser Phe Leu Glu Leu Trp Tyr Ile Asn Val Thr Ile Pro Arg
                    70
                                        75
Leu Leu Ala Ala Phe Leu Thr Gln Asp Gly Arg Val Ser Tyr Val Gly
                                    90
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180 185 190
Glu Gln Ala Glu Leu Val Asp Phe Leu Leu Ala Leu Val Met Ile Leu
195 200 205
Leu Pro Leu Leu Ala Val Val Ser Ser Tyr Thr Ala Ile Ile Ala Ala

210 215 220

Ile Leu Arg Ile Pro Thr Ser Arg Gly Arg His Lys Ala Phe Ser Thr
225 230 235 240

Cys Ala Ala His Leu Ala Val Val Ile Tyr Tyr Ser Ser Thr Leu 250 245 Phe Thr Tyr Ala Arg Pro Arg Ala Met Tyr Thr Phe Asn His Asn Lys 260 265 Ile Ile Ser Val Leu Tyr Thr Ile Ile Val Pro Phe Phe Asn Pro Ala 280 Ile Tyr Cys Leu Arg Asn Lys Glu Val Lys Glu Ala Phe Arg Lys Thr 295 Val Met Gly Arg Cys His Tyr Pro Arg <210> 1459 <211> 322 <212> PRT <213> Unknown (H38g376 protein) <223> Synthetic construct <221> VARIANT <222> (1)...(322) <223> Xaa = Any Amino Acid <400> 1459 His Thr Glu Pro Leu Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu 10 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser 25 Leu Ser Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser 40 45 Ile Leu Ala Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe : 50 55 60 Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Tyr Thr Ser Ala Thr 75 Val Pro Lys Met Ile Val Asp Thr Gln Ser His Gly Arg Val Ile Ser 85 90 His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys 100 105 110 Ile Glu Asp Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala 120 125 Ile Cys Cys Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys 135 140 Val Phe Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln 150 155 Leu His Ser Trp Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu 165 170 Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys 185 190 Ser Asp Ser Val Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met 200 Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Ser Lys Ile 210 215 220 Val Pro Ser Val Leu Arg Met Ser Ser Ser Asp Gly Lys Tyr Lys Ala 230 235 240 Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Asp Gly 245 250 Thr Gly Ile Gly Met Tyr Leu Thr Ser Ala Val Ala Pro Pro Pro Arg 265 Asn Gly Val Val Glu Ser Gly Met Tyr Ala Val Val Thr Pro Met Leu 280 Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg His Thr Gln Ser Ala Leu

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290
                        295
                                            300
Arg Arg Leu Arg Ser Arg Thr Val Glu Ser His Asp Leu Leu His Pro
305
                                       315
                    310
Phe Ser
<210> 1460
<211> 186
<212> PRT
<213> Unknown (H38g377 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(186)
<223> Xaa = Any Amino Acid
<400> 1460
Pro Val Pro Gln His Leu Phe Phe Leu Lys Val Thr Gly His Leu
                                    10
Leu Thr Xaa Ile Arg Asn Leu Xaa Phe Val Pro Asp Phe Ser Phe Ser
            20
                                25
Leu Ala Leu His Ile Tyr Gln Xaa Tyr Xaa Phe Xaa Thr Asn Leu Asn
                            40
Glu Leu His Leu Cys Pro Ser Leu Ile Ser Pro Pro Ser Leu Ser Väl
                        55
His Xaa Leu Arg Leu His His Val Asn Tyr Tyr His Gly Met Leu Thr
                    70
                                        75
Glu Leu Leu Pro Met Val Pro Cys His Asn Ser Ser Phe Ile Trp
                85
                                   90
Leu Pro Ile Asn Phe Xaa Lys Phe Ile Cys Ile Cys Tyr Phe Ser Gly
                               105
Xaa Lys Leu Pro Met His Val Glu Asp Gly Met Gln Thr Ala Leu His
                            120
                                                125
Ala Cys Pro Leu Leu Met Gln Leu Leu Leu Ser Ile Pro His Ser Tyr
                       135
                                           140
Pro Leu Leu Asp Asn Ser Phe Leu Phe Leu Arg Leu His Pro Arg
                    150
                                       155
Ser Lys Leu Ser Tyr Phe Leu His Ile Leu Leu Ser Xaa Pro Phe Thr
                165
                                   170
Tyr Val Asn His Leu Leu Pro Phe Leu Leu
           180
<210> 1461
<211> 336
<212> PRT
<213> Unknown (H38g378 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(336)
<223> Xaa = Any Amino Acid
<400> 1461
Ser Arg Asp Pro Gln Asn Leu Thr Asp Val Ser Ile Phe Leu Leu Leu
             5
                                   10
Gly Ser Ser Glu Asp Pro Glu Arg Gln Pro Val Leu Thr Gly Leu Phe
                                25
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Leu Ser Thr Cys Leu Val Met Ala Leu Gly Asn Leu Leu Ile Ile Leu
                            40
Ala Ile Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
                        55
Ser Asn Leu Ser Leu Pro Asp Ile Ser Phe Thr Ser Thr Thr Val Pro
                                        75
                    70
Lys Met Thr Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala
                85
Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
           100
                                105
                                                    110
Asp Asn Ile Leu Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Lys
                            120
Cys His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly
                       135
                                            140
Phe Leu Leu Leu Ser Phe Phe Ser Ser Leu Ser Leu Leu Asp Ala
                                        155
                   150
Gln Leu Tyr Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val
                                   170
               165
Glu Ile Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala
           180
                              185
Cys Cys Asp Thr Phe Asn Asn Ile Ile Leu Tyr Phe Pro Asp Ala
                           200
                                               205
Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Asp Lys
                                            220
                       215
Ile Val Ser Ser Ile Leu Arg Val Ser Ser Gly Gly Lys Tyr Lys
                   230
                                        235
Ala Phe Ser Thr Tyr Gly Ser His Leu Ser Asp Val Ser Xaa Phe Tyr
                                    250
               245
Gly Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro
                                265
                                                    270
Arg Lys Thr Ala Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met
                           280
                                                285
Met Asn Pro Phe Ile Tyr Ser Pro Arg Asn Arg Asp Met Lys Ser Val
                       295
Leu Arg Arg Pro His Gly Ser Thr Phe Xaa Ser Gln Tyr Leu Leu Ile
                   310
                                       315
Cys Ser Ile Pro Phe Ala Val Trp Val Glu Lys Gly Cys Met Met Lys
               325
                                    330
<210> 1462
<211> 157
<212> PRT
<213> Unknown (H38g379 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1) ... (157)
<223> Xaa = Any Amino Acid
<400> 1462
Phe Leu Lys Met Arg Leu Lys Glu Leu Met Xaa Asp Arg Thr Ile Met
                                   10
Asp Tyr Trp Arg Glu Gly Arg His Ile Xaa Gly Met Phe Leu Ala Phe
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Phe Leu Pro Lys Leu Gln Pro Phe Ser Ser Cys His Val Ser Glu Leu

25 Pro Phe Gly Xaa Pro Ile Pro Lys Leu Phe Leu Trp Val Ser Ile Arg

40 Asp Met Ala Val Thr Trp Met Asp His Arg His Glu Ser Cys Ser Pro

20

35 .

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70
                                         75
 Cys Thr Cys Leu Asp Thr Phe Thr Lys Ser Tyr Ile Thr Xaa Ile Arg
                 85
                                     90
 Gly Leu Lys Gly Phe Asn His Leu Cys Phe Leu Leu His Tyr Cys His
             100
                                 105
 Cys Ala Arg Ala Gln Val Ser Xaa Asn Ala Pro Trp Ser Leu Ala Gln
        115
                            120
 Arg Cys Gln Pro Asn Met Leu Ile Arg Xaa Leu Phe Cys Leu Lys Leu
                        135
 Val Val His Asp Arg Leu Xaa His Val Leu Ser Leu Leu
                     150
<210> 1463
<211> 325
 <212> PRT
<213> Unknown (H38g380 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(325)
<223> Xaa = Any Amino Acid
<400> 1463
Met Lys Ile Asn Gln Thr Ile Leu Lys Glu Phe Ile Leu Val Gly Phe
 1
                                     10
Ser Val Tyr Pro His Val Gln Thr Phe Leu Phe Val Val Phe Phe Cys
                                25
Leu Tyr Leu Leu Thr Leu Ala Gly Asn Leu Thr Ile Met Gly Leu Thr
                            40
Xaa Val Asp Arg Ser Leu His Thr Pro Met Tyr Leu Phe Leu Ser Ala
                        55
Leu Ser Phe Ser Glu Thr Cys Tyr Thr Leu Thr Ile Val Pro Lys Met
                    70
                                         75
Leu Glu Asp Leu Leu Ala Lys Asp Arg Ser Ile Ser Val Thr Gly Cys
                                    90
Ser Leu Gln Met Cys Phe Phe Leu Gly Leu Gly Gly Thr Asn Cys Ile
                                105
Ile Leu Thr Leu Met Gly Tyr Asp Arg Phe Leu Ala Ile Cys Asn Pro
                            120
Leu Arg Tyr Pro Leu Leu Met Thr Asn Ile Val Cys Gly Gln Leu Val
                        135
                                            140
Ala Ser Ala Cys Thr Ala Gly Phe Phe Ile Ser Leu Thr Glu Thr Ala
                    150
                                        155
Leu Ile Phe Arg Asp Ser Phe Cys Arg Pro Asn Leu Val Lys His Phe
                                    170
Phe Cys His Met Leu Ala Val Ile Arg Leu Ser Cys Ile Asp Ser Asn
            180
                                185
                                                    190
His Thr Glu Phe Ile Ile Thr Leu Ile Ser Val Ser Gly Leu Leu Gly
                            200
                                                205
Thr Leu Leu Leu Ile Ile Leu Thr Asp Val Phe Ile Ile Ser Thr Val
                        215
                                            220
Leu Arg Ile Pro Ser Ala Glu Gly Lys Gln Lys Ala Phe Thr Thr Cys
                    230
                                        235
Ala Ser His Leu Thr Val Val Ile Ile His Phe Gly Phe Ala Ser Ile
                245
                                    250
Val Tyr Leu Lys Pro Glu Ala Ser Gly Asp Asp Thr Leu Ile Ala Val
            260
                                265
Pro Tyr Thr Val Ile Thr Pro Phe Leu Ser Pro Ile Ile Phe Ser Leu
                            280
```

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Arg Asn Lys Asp Met Lys Asn Ala Phe Arg Arg Met Met Gly Asn Thr
               295
                                          300
Val Ala Leu Lys Lys Ile Ile Leu Gly Cys Cys Leu Phe Glu Glu
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     310
Gly Leu Asn Val Pro
<210> 1464
<211> 313
<212> PRT
<213> Unknown (H38g381 protein)
<220>
<223> Synthetic construct
<400> 1464
Met Gly Gln Thr Asn Val Thr Ser Trp Arg Asp Phe Val Phe Leu Gly
                         10
Phe Ser Ser Sly Glu Leu Gln Leu Leu Leu Phe Ala Leu Phe Leu
Ser Leu Tyr Leu Val Thr Leu Thr Ser Asn Val Phe Ile Ile Ala
    35
                          40
                                              45
Ile Arg Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
                   55
                                          60
Phe Leu Ser Phe Ser Glu Thr Cys Tyr Thr Leu Gly Ile Ile Pro Arg
                   70
                                      75
Met Leu Ser Gly Leu Ala Gly Gly Asp Gln Ala Ile Ser Tyr Val Gly
                                   90
Cys Ala Ala Gln Met Phe Phe Ser Ala Ser Trp Ala Cys Thr Asn Cys
                               105
Phe Leu Leu Ala Ala Met Gly Phe Asp Arg Tyr Val Ala Ile Cys Ala
                           120
Pro Leu His Tyr Ala Ser His Met Asn Pro Thr Leu Cys Ala Gln Leu
                       135
Val Ile Thr Ser Phe Leu Thr Gly Tyr Leu Phe Gly Leu Gly Met Thr
                  150
                                      155
Leu Val Ile Phe His Leu Ser Phe Cys Ser Ser His Glu Ile Gln His
                                  170
               165
Phe Phe Cys Asp Thr Pro Pro Val Leu Ser Leu Ala Cys Gly Asp Thr
           180
                               185
                                                  190
Gly Pro Ser Glu Leu Arg Ile Phe Ile Leu Ser Leu Leu Val Leu Leu
                                              205
       195
                           200
Val Ser Phe Phe Phe Ile Thr Ile Ser Tyr Ala Tyr Ile Leu Ala Ala
                       215
                                          220
Ile Leu Arg Ile Pro Ser Ala Glu Gly Gln Lys Lys Ala Phe Ser Thr
                  230
                                      235
Cys Ala Ser His Leu Thr Val Val Ile Ile His Tyr Gly Cys Ala Ser
                                  250
               245
Phe Val Tyr Leu Arg Pro Lys Ala Ser Tyr Ser Leu Glu Arg Asp Gln
                              265
Leu Ile Ala Met Thr Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Ile
                          280
                                              285
Val Tyr Ser Leu Arg Thr Arg Ala Ile Gln Thr Ala Leu Arg Asn Ala
                      295
                                         300
Phe Arg Gly Arg Leu Leu Gly Lys Gly
                  310
<210> 1465
<211> 289
<212> PRT
<213> Unknown (H38g382 protein)
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<220>
<223> Synthetic construct
 <221> VARIANT
<222> (1)...(289)
<223> Xaa = Any Amino Acid
<400> 1465
Leu Leu Phe Phe Ile Leu Leu Leu Ile Tyr Leu Phe Thr Ile Ile
                                    10
Gly Ser Leu Met Val Phe Phe Ala Ile Lys Leu Asp Phe Cys Leu His
                                25
Ser Ser Leu Tyr Phe Phe Ile Ser Val Leu Ser Phe Leu Glu Ile Trp
                            40
Tyr Thr Thr Ile Thr Ile Pro Lys Met Phe Phe Asn Leu Ala Ser Glu
Gln Lys Thr Thr Ser Leu Asp Gly Cys Leu Leu Gln Met Tyr Phe Phe
                    70
Tyr Ser Leu Gly Ile Thr Glu Val Cys Leu Leu Thr Thr Arg Ala Met
                85
Asp Arg Tyr Leu Ala Ile Cys Asn His Leu Cys Tyr Pro Thr Val Thr
                               105
                                                    110
Thr Pro Xaa Leu Tyr Thr Gln Val Ile Leu Gly Cys Cys Ile Cys Gly
                            120
                                                125
Phe Phe Thr Leu Leu Pro Glu Ile Ala Trp Ile Ser Thr Leu Pro Phe
                        135
Cys Gly Pro Asn Gln Ile His Asn Ile Phe Cys Asp Leu Asp Pro Ile
                   150
                                       155
Leu Asn Leu Ala Cys Val Asp Thr Gly Pro Val Val Leu Ile Lys Val
                165
                                    170
                                                        175
Val Asp Ile Val His Ala Val Glu Ile Ile Thr Ala Ile Met Leu Val
                                185
Thr Leu Ala Tyr Val Gln Ile Ile Ala Val Ile Leu Arg Asn Cys Ser
                            200
Ala Asp Gly Cys Gln Lys Ala Phe Ser Thr Tyr Ala Phe His Leu Ala
                        215
                                            220
Ile Phe Leu Ile Phe Phe Gly Ser Val Ala Leu Met Tyr Leu Leu Phe
                    230
                                        235
Ser Ala Lys Tyr Ser Phe Phe Trp Asp Thr Thr Ile Ser Leu Met Phe
                                    250
Ala Val Leu Ser Pro Thr Pro Ile Ile Cys Ser Leu Arg Asn Lys Glu
                               265
Ile Lys Glu Ala Ile Lys Lys His Met Cys Gln Ser Met Ile Cys Thr
                           280
His
<210> 1466
<211> 318
<212> PRT
<213> Unknown (H38g383 protein)
<220>
<223> Synthetic construct
<400> 1466
Met Glu Ser Pro Asn Arg Thr Thr Ile Gln Glu Phe Ile Phe Ser Ala
                                   10
Phe Pro Tyr Ser Trp Val Lys Ser Val Val Cys Phe Val Pro Leu Leu
                                25
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Phe Ile Tyr Ala Phe Ile Val Val Gly Asn Leu Val Ile Ile Thr Val
                            40
 Val Gln Leu Asn Thr His Leu His Thr Pro Met Tyr Thr Phe Ile Ser
                                             60
 Ala Leu Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Thr Ile Pro Lys
                     70
                                         75
 Met Leu Ser Ser Leu Leu Ser Glu Arg Ser Ile Ser Phe Asn Gly Cys
                 85
                                     90
 Leu Leu Gln Met Tyr Phe Phe His Ser Thr Gly Ile Cys Glu Val Cys
                                 105
 Leu Leu Thr Val Met Ala Phe Asp His Tyr Leu Ala Ile Cys Ser Pro
                             120
                                                 125
Leu His Tyr Pro Ser Ile Met Thr Pro Lys Leu Cys Thr Gln Leu Thr
                         135
                                             140
Leu Ser Cys Trp Val Cys Gly Phe Ile Thr Pro Leu Pro Glu Ile Ala
                    150
                                         155
Trp Ile Ser Thr Leu Pro Phe Cys Gly Ser Asn His Leu Glu His Ile
                165
                                     170
Phe Cys Asp Phe Leu Pro Val Leu Arg Leu Ala Cys Thr Asp Thr Arg
                                 185
                                                     190
Ala Ile Val Met Ile Gln Val Val Asp Val Ile His Ala Val Glu Ile
                            200
                                                 205
Ile Thr Ala Val Met Leu Ile Phe Met Ser Tyr Asp Gly Ile Val Ala
                        215
Val Ile Leu Arg Ile His Ser Ala Gly Gly Arg Arg Thr Ala Phe Ser
                    230
                                        235
Thr Cys Val Ser His Phe Ile Val Phe Ser Leu Phe Phe Gly Ser Val
                245
                                    250
Thr Leu Met Tyr Leu Arg Phe Ser Ala Thr Tyr Ser Leu Phe Trp Asp
                                265
                                                     270
Ile Ala Ile Ala Leu Ala Phe Ala Val Leu Ser Pro Phe Phe Asn Pro
        275
                            280
                                                285
Ile Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Glu Ala Ile Lys Lys
                        295
                                            300
His Ile Gly Gln Ala Lys Ile Phe Phe Ser Val Arg Pro Gly
                    310
<210> 1467
<211> 129
<212> PRT
<213> Unknown (H38g384 protein)
<220>
<223> Synthetic construct
<400> 1467
Leu Leu Lys Leu Ser Cys Ser Asp Thr His Leu Asn Glu Val Ile Ile
                                    10
Leu Ser Glu Gly Ala Leu Val Met Ile Thr Pro Phe Leu Cys Ile Leu
            20
                                25
                                                    30
```

Ala Ser Tyr Met His Ile Thr Cys Thr Val Leu Lys Val Pro Ser Thr 40 45 Lys Gly Arg Trp Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ala Val 55 Val Leu Leu Phe Tyr Ser Thr Ile Ile Ala Val Tyr Phe Asn Pro Leu 70 75 Ser Ser His Ser Ala Glu Lys Asp Thr Met Ala Thr Val Leu Tyr Thr 85 90 Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg 100 105 Tyr Leu Lys Gly Ala Leu Lys Lys Val Val Gly Arg Val Val Phe Ser

115 120 125 Val <210> 1468 <211> 162 <212> PRT <213> Unknown (H38g385 protein) <220> <223> Synthetic construct <221> VARIANT <222> (1)...(162) <223> Xaa = Any Amino Acid <400> 1468 Leu Leu Ile Ile Pro Ala Ile Ala Thr Asp Thr Arg Leu Ser Val Leu 10 Val Arg Phe Phe Leu Ala Asn Leu Ala Phe Val Val Thr Cys Phe Thr 25 Ser Thr Thr Ile Pro Lys Met Leu Ala Cys Lys Glu Ile Pro Cys Val Met Ser Gly Cys Lys Gly Ile Pro Tyr Ala Gly Cys Leu Thr Gln Met 60 Leu Phe Phe Ile Trp Leu Gly Ile His Ser Phe Leu Leu Thr Ala Met 70 75 Ala Asn Glu His Cys Val Ala Ile Cys His Ser Leu Asn Ser Ile Arg 85 90 Ser Val Thr Pro Xaa Leu Cys Gly Leu Leu Val Val Ala Ser Trp Thr 105 Phe Ala Phe Arg Asn Ala Leu Thr His Pro Val Leu Leu Thr Arg Leu 120 Ser Leu Cys Thr Tyr Glu Trp Val Ser His Val Phe Cys Asn Leu Ser 135 Gln Leu Leu Lys Leu Ala Cys Ser Asp Ala Thr Leu Asn Asn Val Thr 150 155 Val Gln <210> 1469 <211> 327 <212> PRT <213> Unknown (H38g386 protein) <220> <223> Synthetic construct <400> 1469 Met Leu Thr Pro Asn Asn Ala Cys Ser Val Pro Thr Ser Phe Arg Leu 10 Thr Gly Ile Pro Gly Leu Glu Ser Leu His Ile Trp Leu Ser Ile Pro 25 Phe Gly Ser Met Tyr Leu Val Ala Val Leu Gly Asn Ile Thr Ile Leu 40

90

Ala Val Val Arg Met Glu Tyr Ser Leu His Gln Pro Met Tyr Phe Phe

Leu Cys Met Leu Ala Val Ile Asp Leu Val Leu Ser Thr Ser Thr Met

Pro Lys Leu Leu Ala Ile Phe Trp Phe Gly Ala His Asn Ile Gly Val

```
Asn Ala Cys Leu Ala Gln Met Phe Phe Ile His Cys Phe Ala Thr Val
            100
                                105
Glu Ser Gly Ile Phe Leu Ala Met Ala Phe Asp His Tyr Val Ala Ile
        115
                            120
                                                 125
Cys Asp Pro Leu His His Thr Leu Leu Leu Thr His Ala Val Val Gly
                        135
                                            140
Arg Leu Gly Leu Ala Ala Leu Leu Arg Gly Val Ile Tyr Ile Gly Pro
                    150
                                        155
Leu Pro Leu Val Ile Cys Leu Arg Leu Pro Leu Tyr His Thr Gln Ile
                                    170
Ile Ala His Ser Tyr Cys Glu His Met Ala Val Val Thr Leu Ala Cys
            180
                                185
Gly Asp Asp Thr Arg Val Asn Asn Leu Tyr Gly Met Gly Ile Gly Phe
        195
                            200
Leu Val Leu Ile Leu Asp Ser Leu Ala Ile Thr Ala Ser Tyr Val Met
                        215
                                            220
Ile Phe Arg Ala Val Met Gly Leu Ala Thr Ser Glu Ala Arg Leu Lys
                    230
                                        235
Thr Leu Gly Thr Cys Gly Ser His Ile Cys Ala Ile Leu Val Phe Tyr
                245
                                    250
Ile Pro Ile Ala Val Ser Ser Leu Thr His Arg Phe Gly His Arg Val
            260
                                265
Pro Pro His Ile His Ile His Ile His Ile His Ile His Ile
                            280
                                                285
Leu Leu Ala Asn Ile Tyr Leu Leu Ile Pro Pro Ile Leu Asn Pro Ile
                        295
                                            300
Val Tyr Ala Val Arg Thr Lys Gln Ile Arg Glu Ala Leu Leu His Ile
                    310
Lys Ala Arg Thr Gln Thr Arg
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Glu Asn Glu Thr Gly Val Gly Glu Phe Leu Leu Ser Ile Thr Ser
                               25
Asp Ser Glu Lys Gln Gln Ala Leu Phe Trp Leu Phe Leu Cys Met His
                            40
Leu Val Thr Glu Ala Gly Asn Thr Pro Ile Ile Leu Gly Ile Gly Ser
                       55
Asn Pro Arg Leu His Thr Pro Thr Tyr Phe Phe Thr His Leu Ser Phe
                   70
                                       75
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90

110

Val Asn Ile Cys Phe Ile Thr Asn Leu Ile Pro Lys Leu Leu Val Asn

His Val Ala Gly Thr Gly Met Ile Thr Ile Ser Ser Pro Gln Cys Leu 105

Thr Gln Met Tyr Phe Leu Ile Ser Phe Ala Asn Val Asp Thr Phe Leu Leu Ala Ile Met Ala Leu Asp His Tyr Val Ala Ile Cys Ser Ala Leu

```
135
                                            140
Arg Tyr Cys Ser Ile Ile Thr Pro Glu Leu Cys Gln Gly Leu Ala Val
                   150
                                       155
Leu Ala Xaa Ala Gly Ser Ser Leu Ile Ser Leu Val His Thr Val Ile
                                   170
Met Ser Arg Leu Ala Phe Cys Ser Ser Ala Gln Ile Ser His Phe Tyr
                               185
Cys Asp Ala Tyr Leu Leu Met Lys Ile Ala Cys Ser His Thr Val Asn
                           200
Gln His Val Phe Leu Gly Ala Val Val Leu Phe Leu Ala Pro Cys Ala
                       215
                                           220
Leu Ile Leu Val Ser Tyr Ile Arg Ile Ala Ala Ile Leu Arg Ile
                   230
                                        235
Pro Ser Pro Thr Arg Arg Arg Lys Ala Cys Ser Ile Cys Ser Ser His
                245
                                   250
Leu Ser Leu Val Thr Leu Phe Tyr Gly Thr Val Leu Gly Ile Cys Ile
                               265
Xaa Pro Pro Asp Ser Phe Ser Ala Gln Asp Thr Ile Ala Thr Ile Met
       275
                           280
                                               285
Tyr Thr Val Val Thr Ser Met Leu Asn Pro Phe Ile Tyr Ser Leu Met
                       295
                                           300
Asn Lys Glu Val Gln Glu Ala Val Arg Arg Leu Phe Ser Arg Gly Ser
                  310
                                       315
His Ser Ser
<210> 1471
<211> 202
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- <220>
- <223> Synthetic construct
- <221> VARIANT
- <222> (1)...(202)
- <223> Xaa = Any Amino Acid
- Leu His Phe Cys Gly Ile Asp Val Thr Ser Tyr Gln Ala Xaa Gln Ile
- Leu Ala Xaa Gln Pro Tyr Asp Thr Thr Xaa Cys Gly Gln Arg Ile Val 25
- Gly Ile Met Ala Val Ala Trp Gly Ile Gly Phe Leu His Ser Leu Ser 40
- Gln Leu Ala Phe Ala Val His Leu Pro Phe Cys Gly Pro Asn Glu Phe 55 60
- Asp Ser Phe Tyr Cys Asp Leu Pro Arg Val Ile Lys Leu Ala Cys Thr 75
- Asp Thr Tyr Arg Leu Asp Ile Met Val Ile Ala Asn Ser Gly Val Leu 90
- Thr Val Cys Ser Phe Val Leu Leu Ile Ile Ser Tyr Thr Ile Ile Leu 100 105 Met Thr Ile Gln His Arg Pro Leu Asp Lys Ser Ser Lys Ala Leu Ser
- 120 Thr Leu Thr Ala His Ile Thr Val Val Leu Leu Phe Phe Gly Pro Cys
- 135 140 Val Phe Ile Tyr Ala Trp Pro Phe Pro Ile Lys Ser Leu Asp Lys Phe 150 155
- Leu Ala Val Phe Tyr Ser Val Ile Thr Pro Leu Leu Asn Pro Ile Ile 165 170

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Tyr Thr Leu Arg Asn Lys Asp Met Lys Thr Ala Ile Arg Gln Leu Arg
           180
                           185
Lys Trp Asp Ala His Ser Ser Val Lys Phe
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<211> 311
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<221> VARIANT
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<223> Xaa = Any Amino Acid
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                           10
         5
Thr Gly Ile Pro Gly Leu Glu Ser Leu His Val Trp Leu Ser Ile Pro
           20
                               25
Phe Gly Ser Met Tyr Leu Val Ala Val Val Gly Asn Val Thr Ile Leu
       35
                           40
                                               45
Ala Val Val Lys Ile Glu Arg Ser Leu His Gln Pro Met Tyr Phe Phe
                       55
Leu Cys Met Leu Ala Ala Ile Asp Leu Val Leu Ser Thr Ser Thr Ile
                                       75
                   70
Pro Lys Leu Gly Ile Phe Trp Phe Gly Ala Cys Asp Ile Gly Leu
                                   90
             85
Asp Ala Cys Leu Gly Gln Met Phe Leu Ile His Cys Phe Ala Thr Val
           100
                               105
Glu Ser Gly Ile Phe Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
                          120
                                               125
Cys Asn Pro Leu Arg His Ser Met Val Leu Thr Tyr Thr Val Val Gly
                      135
                                           140
Arg Leu Gly Leu Val Ser Leu Leu Arg Gly Val Leu Tyr Ile Gly Pro
                  150
                                       155
Leu Pro Leu Met Ile Arg Leu Arg Leu Pro Leu Tyr Lys Thr His Val
                                   170
                                                       175
Ile Ser His Ser Tyr Cys Glu His Met Ala Val Val Ala Leu Thr Cys
           180
                               185
                                                   190
Gly Asp Ser Lys Val Asn Asn Val Tyr Gly Met Ser Ile Gly Phe Leu
                                               205
       195
                           200
Val Leu Ile Met Glu Ser Val Asp Ser Asp Ala Ser Xaa Val Arg Ser
                       215
                                           220
Ile Arg Ala Val Met Gly Leu Ala Asn His Glu Asp Arg Ile Lys Thr
                   230
                                       235
Met Gly Thr Gly Glu Tyr His Ile Cys Ala Ile Met Ile Phe Arg Ile
               245
                                   250
Pro Val Met Tyr Ile Pro Xaa Asp His Arg Asp Gly Gln Cys Val His
           260
                               265
                                                . 270
His Pro Val His Asn Met Met Ala Arg Ile Tyr Ile Ile Ser His Pro
                           280
                                               285
Ser Ile Lys Pro Ser Val Xaa Asp Asp Arg Thr Lys Gln Ser Arg Glu
                       295
Ser Tyr Ile Gln Arg Ala Arg
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<210> 1473
<211> 315
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 Gly Ile Phe Ser His Ser Thr Ala Asp Leu Val Leu Phe Ser Val Val
             20
 Met Ala Val Phe Thr Val Ala Leu Cys Gly Asn Val Leu Leu Ile Phe
        35
 Leu Ile Tyr Met Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu
                         55
 Ser Gln Leu Ser Leu Met Asp Leu Met Leu Val Cys Thr Asn Val Pro
                    70
 Lys Met Ala Ala Asn Phe Leu Ser Gly Arg Lys Ser Ile Ser Phe Val
                85
                                    90
Gly Cys Gly Ile Gln Ile Gly Leu Phe Val Cys Leu Val Gly Ser Glu
                                105
                                                    110
Gly Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Ser
        115
                            120
                                                125
His Pro Leu His Tyr Pro Ile Leu Met Asn Gln Arg Val Cys Leu Gln
    130
                        135
                                            140
Ile Thr Gly Ser Ser Trp Ala Phe Gly Ile Ile Asp Gly Leu Ile Gln
                    150
                                        155
Met Val Val Met Asn Phe Pro Tyr Cys Gly Leu Arg Lys Val Asn
                                    170
                                                        175
His Phe Phe Cys Glu Met Leu Ser Leu Leu Lys Leu Ala Cys Val Asp
            180
                                185
                                                    190
Thr Ser Leu Phe Glu Lys Val Ile Phe Ala Cys Cys Val Phe Met Leu
                            200
Leu Phe Pro Phe Ser Ile Ile Val Ala Ser Tyr Ala His Ile Leu Gly
                        215
                                            220
Thr Val Leu Gln Met His Ser Ala Gln Ala Trp Lys Lys Ala Leu Ala
                    230
                                        235
Thr Cys Ser Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Ala Ala
                245
                                    250
Met Phe Ile Tyr Leu Arg Pro Arg His Tyr Arg Ala Pro Ser His Asp
            260
                                265
Lys Val Ala Ser Ile Phe Tyr Thr Val Leu Thr Pro Met Leu Asn Pro
                            280
                                                285
Leu Ile Tyr Ser Leu Arg Asn Arg Glu Val Met Gly Ala Leu Arg Lys
                        295
Gly Leu Asp Arg Cys Arg Ile Gly Ser Gln His
                    310
<210> 1474
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<221> VARIANT
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Met Val Val Phe Thr Val Ala Leu Cys Gly Asn Val Leu Leu Ile Phe
Leu Ile Tyr Leu Asp Ala Gly Leu His Thr Pro Met Tyr Phe Phe Leu
                        55
Ser Gln Leu Ser Leu Met Asp Leu Met Leu Val Cys Asn Ile Val Pro
                                        75
                    70
Lys Met Ala Ala Asn Phe Leu Ser Gly Arg Lys Ser Ile Ser Phe Val
                                    90
                85
Gly Cys Gly Ile Gln Ile Gly Phe Phe Val Ser Leu Val Gly Ser Glu
            100
                                105
Gly Leu Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Val Ser
                            120
                                                125
His Pro Leu His Tyr Pro Ile Leu Met Asn Gln Arg Val Cys Leu Gln
                       135
                                            140
Ile Thr Gly Ser Ser Trp Ala Phe Gly Ile Ile Asp Gly Val Ile Gln
                   150
                                        155
Met Val Ala Ala Met Gly Leu Pro Tyr Cys Gly Ser Arg Ser Val Asp
                                    170
                165
His Phe Phe Cys Glu Val Gln Ala Leu Leu Lys Leu Ala Cys Ala Asp
            180
                                185
Thr Ser Leu Phe Asp Thr Leu Leu Phe Ala Cys Cys Val Phe Met Leu
                            200
Leu Leu Pro Phe Ser Ile Ile Met Ala Ser Tyr Ala Cys Ile Leu Gly
                        215
                                            220
Ala Val Leu Arg Ile Arg Ser Ala Gln Ala Trp Lys Lys Ala Leu Ala
                   230
                                        235
Thr Cys Ser Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Ala Ala
                                    250
Met Phe Met Tyr Leu Arg Pro Arg Arg Tyr Arg Ala Pro Ser His Asp
           260
                                265
Lys Val Ala Ser Ile Phe Tyr Thr Val Leu Thr Pro Met Leu Asn Pro
                            280
        275
Leu Ile Tyr Ser Leu Arg Asn Gly Glu Val Met Gly Ala Leu Arg Lys
                       295
Gly Leu Asp Arg Cys Arg Ile Gly Ser Gln His Xaa Thr Pro Glu Ser
                   310
                                       315
Gly Ala Cys Cys Ala Pro
                325
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<210> 1475

<211> 314

<212> PRT

<213> Unknown (H38g392 protein)

<220>

<223> Synthetic construct

<400> 1475

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 Val
 Asn
 Gln
 Ser
 Val
 Ala
 Ser
 Asp
 Phe
 Ile
 Leu
 Val
 Gly

 Leu
 Phe
 Ser
 His
 Ser
 Gly
 Ser
 Arg
 Gln
 Leu
 Leu
 Phe
 Ser
 Leu
 Val
 Ala

 Val
 Met
 Phe
 Val
 Ile
 Gly
 Leu
 Leu
 Gly
 Asn
 Thr
 Val
 Leu
 Leu
 Phe
 Leu

 Ile
 Arg
 Val
 Asp
 Ser
 Arg
 Leu
 His
 Thr
 Pro
 Met
 Thr
 Phe
 Leu
 Leu
 Ser

 Gln
 Leu
 Ser
 Leu
 Phe
 Asp
 Ile
 Gly
 Cys
 Pro
 Met
 Val
 Thr
 Ile
 Pro
 Lys

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70
                                        75
Met Ala Ser Asp Phe Leu Arg Gly Glu Gly Ala Thr Ser Tyr Gly Gly
                                    90
Gly Ala Ala Gln Ile Phe Phe Leu Thr Leu Met Gly Val Ala Glu Gly
                               105
Val Leu Val Leu Met Ser Tyr Asp Arg Tyr Val Ala Val Cys Gln
                            120
Pro Leu Gln Tyr Pro Val Leu Met Arg Arg Gln Val Cys Leu Leu Met
                        135
Met Gly Ser Ser Trp Val Val Gly Val Leu Asn Ala Ser Ile Gln Thr
                   150
                                        155
Ser Ile Thr Leu His Phe Pro Tyr Cys Ala Ser Arg Ile Val Asp His
               165
                                   170
Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Ala Asp Thr
                               185
            180
Cys Ala Tyr Glu Met Ala Leu Ser Thr Ser Gly Val Leu Ile Leu Met
                            200
                                                205
Leu Pro Leu Ser Leu Ile Ala Thr Ser Tyr Gly His Val Leu Gln Ala
                        215
                                            220
Val Leu Ser Met Arg Ser Glu Glu Ala Arg His Lys Ala Val Thr Thr
                    230
                                        235
Cys Ser Ser His Ile Thr Val Val Gly Leu Phe Tyr Gly Ala Ala Val
               245
                                    250
Phe Met Tyr Met Val Pro Cys Ala Tyr His Ser Pro Gln Gln Asp Asn
            260
                               265
Val Val Ser Leu Phe Tyr Ser Leu Val Thr Pro Thr Leu Asn Pro Leu
                           280
                                               285
Ile Tyr Ser Leu Arg Asn Pro Glu Val Trp Met Ala Leu Val Lys Val
                       295
Leu Ser Arg Ala Gly Leu Arg Gln Met Cys
                    310
<210> 1476
<211> 117
<212> PRT
<213> Unknown (H38g393 protein)
<220>
<223> Synthetic construct
<400> 1476
Asn Ile Lys Gly Ile Ala Val Pro Met Phe Ile Glu Val Leu Asp Leu
Phe Phe Ile Ile Leu Ser Tyr Ile Phe Ile Leu Gln Ala Val Leu Gln
        20
                             · 25
Leu Ser Ser Gln Glu Ala Arg Tyr Lys Ala Phe Gly Thr Cys Val Ser
                            40
His Ile Gly Ala Ile Leu Ala Phe Tyr Thr Pro Ser Val Ile Ser Ser
                        55
                                            60
Val Met His Arg Val Ala Arg Cys Ala Ala Pro His Val His Ile Leu
                                        75
Leu Ala Asn Phe Tyr Leu Leu Phe Pro Pro Met Val Asn Pro Ile Ile
                85
                                   90
Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Ser Val Leu Gly Val Phe
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                               105
Pro Arg Lys Asp Val
       115
<210> 1477
<211> 316
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Leu Ser Gln Asp Leu Gln Thr Gln Ile Leu Phe Ile Leu Phe Leu

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40
Ile Ile Tyr Leu Leu Thr Val Leu Gly Asn Gln Leu Ile Ile Leu
                        55
Ile Phe Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Arg
                                        75
Asn Leu Ser Phe Ala Asp Leu Cys Phe Ser Thr Ser Ile Val Pro Gln
                                    90
Val Leu Val His Phe Leu Val Lys Arg Lys Thr Ile Ser Phe Tyr Gly
                                105
Cys Met Thr Gln Ile Ile Val Phe Leu Leu Val Gly Cys Thr Glu Cys
                            120
                                                125
Ala Leu Leu Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Val Cys Lys
                       135
                                           140
Pro Leu Tyr Tyr Ser Thr Ile Met Thr Gln Arg Val Cys Leu Trp Leu
                   150
                                       155
Ser Phe Arg Ser Trp Ala Ser Gly Ala Leu Val Ser Leu Val Asp Thr
                165
                                   170
Ser Phe Thr Phe His Leu Pro Tyr Trp Gly Gln Asn Ile Ile Asn His
            180
                                185
                                                    190
Tyr Phe Cys Glu Pro Pro Ala Leu Leu Lys Leu Ala Ser Ile Asp Thr
        195
                            200
                                                205
Tyr Ser Thr Glu Met Ala Ile Phe Ser Met Gly Val Val Ile Leu Leu
                        215
                                            220
Ala Pro Val Ser Leu Ile Leu Gly Ser Tyr Trp Asn Ile Ile Ser Thr
                                        235
                   230
Val Ile Gln Met Gln Ser Gly Glu Gly Arg Leu Lys Ala Phe Ser Thr
               245
                                    250
Cys Gly Ser His Leu Ile Val Val Leu Phe Tyr Gly Ser Gly Ile
            260
                                265
                                                    270
Phe Thr Tyr Met Arg Pro Asn Ser Lys Thr Thr Lys Glu Leu Asp Lys
        275
                           280
                                                285
Met Ile Ser Val Phe Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Ile
                        295
                                            300
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Arg Lys Leu
                    310
Val Gly Arg Lys Cys Phe Ser His Arg Gln
                325
<210> 1479
<211> 227
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Gly Val Ser Thr Arg His Ala Ala Arg Val Thr Ser Tyr Gln Glu Cys
Gly Val Arg Gly Gly Val Leu Cys Gly Ala Val Arg Pro Ser Pro
                            40
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Leu Asp Ala Gln Leu His Asn Val Ile Ala Tyr Arg Arg Thr Cys Phe

Lys Asp Val Glu Ile Pro Asn Phe Val Trp Asp Pro Ser Gln Leu Pro

Arg Leu Ala Cys Cys Gly Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe 90 Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser 100 105 Tyr Asp Lys Ile Val Phe Ser Ile Leu Arg Val Ser Ser Ser Gly Gly 120 115 Lys His Lys Ala Phe Ser Thr Arg Gly Ser His Leu Ser Val Val Cys 135 Xaa Phe Tyr Gly Thr Gly Ile Gly Gly Tyr Leu Ser Ser Asp Val Ser 150 155 Ser Ser Pro Arg Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Ala · 170 165 Ile Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile 180 185 Lys Ser Val Leu Arg Arg Pro His Gly Ser Thr Val Ser Ser Gln Tyr 200 Leu Leu Ile Cys Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Ser Lys Val Lys 225 <210> 1480 <211> 332 <212> PRT <213> Unknown (H38g397 protein) <220> <223> Synthetic construct <400> 1480 Met Lys Ile Phe Asn Thr Pro Ser Asn Ser Ser Thr Phe Thr Gly Phe 10 Ile Leu Leu Gly Phe Pro Cys Pro Arg Glu Gly Gln Ile Leu Leu Val 25 Val Leu Phe Thr Val Val Tyr Leu Leu Thr Leu Met Gly Asn Gly Ser 40 Ile Asn Cys Ala Val His Trp Asp Gln Arg Leu His Ala Pro Met Tyr 55 60 Ile Leu Leu Ala Asn Phe Ser Phe Leu Glu Ile Trp Tyr Val Thr Ser 70 75 Thr Val Pro Asn Val Leu Ala Asn Phe Leu Ser Asp Thr Lys Ile Ile 90 Ser Phe Ser Gly Cys Phe Leu Gln Phe Tyr Phe Phe Ser Leu Gly 105 Ser Thr Glu Cys Phe Phe Leu Gly Ala Met Ala Phe Asp Leu Tyr Leu 120 125 Ala Ile Cys Arg Pro Leu Arg Tyr Pro Thr Ile Met Thr Arg Arg Leu 135 140 Cys Asn Ile Leu Val Gly Ser Cys Trp Val Leu Gly Phe Leu Trp Phe 150 155 Leu Ile Pro Ile Ser Val Ile Ser Gln Met Thr Cys Gly Ser Arg Ile 165 170 Ile Asp His Phe Pro Cys Asp Pro Gly Pro Leu Leu Ala Leu Thr Cys 185 190 Ala Arg Ala Pro Leu Leu Glu Leu Thr Ser Ser Thr Leu Ser Ser Leu 200 205 Leu Leu Phe Ile Pro Phe Leu Phe Ile Val Gly Cys Tyr Ala Leu Val 215 220 Leu Arg Ala Val Leu Arg Val Pro Ser Ala Ser Gly Arg Arg Lys Ala 230 235 Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Ser Leu Phe Tyr Gly

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245
                                    250
Ser Met Met Ile Thr Tyr Val Ser Pro Thr Ser Gly His Glu Phe Gly
            260
                               265
Met Gln Lys Thr Val Thr Leu Phe Tyr Ser Val Val Thr Pro Leu Ile
       275
                           280
                                                285
Asn Pro Val Ile Tyr Ser Leu Arg Asn Lys Glu Met Lys His Ala Met
                                            300
                       295
Arg Asn Tyr Thr Val Met Phe Tyr Leu Ser Arg Ile His Arg Ala Thr
                   310
                                       315
Arg Asp Val Lys Asp Val Phe Tyr Leu Phe Asn Phe
                325
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<222> (1)...(269)
<223> Xaa = Any Amino Acid
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Leu Ser Asn His Leu Ser Ile Phe Lys Leu Val Asp Trp Ile Ile Asn
                                25
Cys Tyr Leu Tyr Tyr Phe Tyr Ser Leu Leu Thr Leu Phe Xaa Gln Phe
                           40
Ile Tyr Thr Cys Glu Met Asn Gln Phe Lys Xaa Xaa Gln Asn Arg Asn
                       55
                                            60
Asn Leu Thr Thr Phe Xaa Gly Tyr Phe Tyr Ser Gly Ile Cys Gly Arg
                   70
                                       75
Arg Asn Cys Thr Met Xaa Leu Ile Thr Ile Phe Ile Leu Lys Tyr Cys
                85
                                   90
Xaa His Gly Phe Ile Thr Ile His Ser Val Met Asp Ser Gly Gln His
                                105
Leu Ala Ile Cys His Pro Leu His Tyr Leu Ile Leu Met Thr Asp Glu
                            120
Asn Arg Asp Arg Met Phe Met Gly Pro Leu Thr Ala Phe Pro Tyr Thr
                        135
Asp Ala Thr Ser Gln Asn Met His Tyr Val Asn Phe Leu Ile Ile Ile
                   150
                                       155
Leu Ser Ile Leu Tyr Ile Pro Gly Pro Tyr Thr Leu Ile Leu Arg Ala
                                   170
               165
Met Leu Gln Leu Ser Ala Ala Ser His Gln Asn Ala Phe Ser Ile
           180
                               185
Arg Gly Ser His Leu Ile Val Val Ser Leu Phe Cys Glu Thr Ile Met
                           200
                                                205
Met Met Cys Val Asn Leu Ile Ser Asp His Leu Val Xaa Met Lys Met
                       215
                                           220
Thr Asn His Asn Ile Ile Met Ile Ser Ser Ile Lys Thr Leu Val Leu
                   230
                                       235
Asn Phe Val Asn Tyr Thr Leu Leu Asn Met Asn Leu Lys Leu Tyr Leu
               245
                                   250
Gln Phe Phe Tyr Gly Met Ser Ile Ser Gln Ser Ser
                               265
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<210> 1482

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<211> 311
<212> PRT
<213> Unknown (H38g399 protein)
<220>
<223> Synthetic construct
<400> 1482
Met Lys Ile Phe Asn Ser Pro Ser Asn Ser Ser Thr Phe Thr Gly Phe
                                   10
Ile Leu Leu Gly Phe Pro Cys Pro Arg Glu Gly Gln Ile Leu Leu Phe
            20
                                25
Val Leu Phe Thr Val Val Tyr Leu Leu Thr Leu Met Gly Asn Gly Ser
                            40
                                                45
Ile Ile Cys Ala Val His Trp Asp Gln Arg Leu His Ala Pro Met Tyr
                        55
Ile Leu Leu Ala Asn Phe Ser Phe Leu Glu Ile Trp Tyr Val Thr Ser
                   70
                                        75
Thr Val Pro Ser Met Leu Ala Asn Phe Leu Ser Asp Thr Lys Ile Ile
               85
                                    90
Ser Phe Ser Gly Cys Phe Leu Gln Phe Tyr Phe Phe Ser Leu Gly
           100
                               105
Ser Thr Glu Cys Phe Phe Leu Ala Val Met Ala Phe Asp Arg Tyr Leu
                            120
                                                125
Ala Ile Cys Arg Pro Leu Arg Tyr Pro Thr Ile Met Thr Arg Arg Leu
                        135
Cys Thr Asn Leu Val Val Asn Cys Trp Val Leu Gly Phe Ile Trp Phe
                    150
                                        155
Leu Ile Pro Ile Val Asn Ile Ser Gln Met Ser Phe Cys Gly Ser Arg
                                    170
                165
Ile Ile Asp His Phe Leu Cys Asp Pro Ala Pro Leu Leu Thr Leu Thr
                                185
Cys Lys Lys Gly Pro Val Ile Glu Leu Val Phe Ser Val Leu Ser Pro
                            200
                                                205
Leu Pro Val Phe Met Leu Phe Leu Phe Ile Val Gly Ser Tyr Ala Leu
                       215
                                            220
Val Val Arg Ala Val Leu Arg Val Pro Sèr Ala Ala Gly Arg Arg Lys
                    230
                                        235
Ala Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Ser Leu Phe Tyr
                245
                                    250
Gly Ser Val Leu Val Met Tyr Gly Ser Pro Pro Ser Lys Asn Glu Ala
           260
                                265
Gly Lys Gln Lys Thr Val Thr Leu Phe Tyr Ser Val Val Thr Pro Leu
                                               285
  275
                           280
Leu Asn Pro Val Ile Tyr Ser Leu Arg Asn Lys Asp Met Arg Lys Ala
                       295
Leu Lys Lys Phe Trp Gly Thr
<210> 1483
<211> 326
<212> PRT
<213> Unknown (H38g400 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(326)
<223> Xaa = Any Amino Acid
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<400> 1483
Thr Ala Leu Glu Phe Thr Asn Asn Ser Glu Thr Ser Thr Met Thr Glu
                                    10
Phe Val Leu Gly Phe Pro Gly Cys Gln Glu Met Gln Ser Phe Leu
                                25
Phe Ser Leu Phe Phe Val Ile Tyr Val Phe Thr Ile Ile Gly Asn Gly
                            40
Thr Ile Val Cys Ala Val Arg Leu Asp Lys Arg Leu His Thr Pro Met
                        55
Tyr Ile Leu Leu Gly Asn Phe Ala Phe Leu Glu Ile Arg Xaa Val Thr
                    70
                                        75
Ser Thr Val Pro Asn Met Leu Val Asn Phe Leu Ser Glu Thr Lys Thr
                85
                                    90
Ile Ser Phe Val Gly Cys Phe Leu Gln Phe Tyr Phe Phe Thr Ser Leu
            100
                                105
Gly Thr Ile Glu Ala Tyr Phe Leu Cys Ile Met Ala Tyr Asp Arg Tyr
                            120
                                                125
Leu Ala Ile Cys Arg Pro Leu His Tyr Pro Thr Ile Met Thr Pro Gln
                        135
                                            140
Leu Cys Tyr Ile Leu Met Ser Phe Cys Trp Val Phe Gly Phe Leu Ser
                    150
                                        155
Tyr Ser Val Ser Thr Val Gln Leu Ser Gln Leu Pro Phe Cys Gly Pro
                165
                                    170
Asn Ile Ile Asn His Phe Leu Cys Asp Met Asp Pro Leu Met Ala Leu
            180
                                185
                                                    190
Ser Cys Ala Ser Ala Pro Ile Thr Glu Ile Ile Phe Tyr Ile Leu Ser
                            200
                                                205
Ser Leu Ile Ile Leu Thr Leu Leu Tyr Ile Cys Gly Ser Tyr Met
                       215
                                            220
Leu Leu Leu Ile Ala Val Leu Lys Val Pro Ser Ala Ala Gly Gln Gln
                   230
                                        235
Lys Ala Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Cys Leu Phe
                245
                                    250
Phe Gly Ala Leu Leu Ala Met Tyr Val Ser Pro Thr Thr Asp Asn Pro
                                265
Ala Ala Ile Xaa Lys Ile Ile Thr Leu Phe Tyr Ser Val Val Thr Pro
                            280
Phe Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Met Lys Ala
                        295
                                            300
Ala Leu Lys Lys Val Leu Arg Ile Glu Xaa Glu Xaa Ser His Leu His
                    310
Glu Thr Lys Gln Thr Ile
<210> 1484
<211> 315
<212> PRT
<213> Unknown (H38g401 protein)
<220>
<223> Synthetic construct
<400> 1484
Met Glu Ser Gly Asn Gln Ser Thr Val Thr Glu Phe Ile Phe Thr Gly
                                    10
```

```
Ile Phe Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Thr Ile Pro Lys
                    70
Met Leu Ser Asn Leu Ile Ser Glu Lys Lys Ala Ile Ser Met Thr Gly
Cys Ile Leu Gln Met Tyr Phe Phe His Ser Leu Glu Asn Ser Glu Gly
                                105
Ile Leu Leu Thr Thr Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn
                            120
Pro Leu Arg Tyr Gln Met Ile Met Thr Pro Arg Leu Cys Ala Gln Leu
                        135
                                            140
Ser Ala Gly Ser Cys Leu Phe Gly Phe Leu Ile Leu Leu Pro Glu Ile
                   150
                                       155
Val Met Ile Ser Thr Leu Pro Phe Cys Gly Pro Asn Gln Ile His Gln
                                   170
                165
Ile Phe Cys Asp Leu Val Pro Val Leu Ser Leu Ala Cys Thr Asp Thr
                               185
Ser Met Ile Leu Ile Glu Asp Val Ile His Ala Val Thr Ile Ile Ile
        195
                           200
                                                205
Thr Phe Leu Ile Ile Ala Leu Ser Tyr Val Arg Ile Val Thr Val Ile
                       215
                                           220
Leu Arg Ile Pro Ser Ser Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys
                   230
                                        235
Ala Gly His Leu Met Val Phe Leu Ile Phe Phe Gly Ser Val Ser Leu
                245
                                    250
Met Tyr Leu Arg Phe Ser Asp Thr Tyr Pro Pro Val Leu Asp Thr Ala
            260
                                265
                                                    270
Ile Ala Leu Met Phe Thr Val Leu Ala Pro Phe Phe Asn Pro Ile Ile
                           280
                                                285
Tyr Ser Leu Arg Asn Lys Asp Met Asn Asn Ala Ile Lys Lys Leu Phe
                       295
Cys Leu Gln Lys Val Leu Asn Lys Pro Gly Gly
```

<210> 1485

<211> 307

<212> PRT

<213> Unknown (H38g402 protein)

<220>

<223> Synthetic construct

<400> 1485

Met His Phe Val Thr Glu Phe Val Leu Gly Phe His Gly Gln Arg 10 Glu Met Gln Ser Cys Phe Phe Ser Phe Ile Leu Val Leu Tyr Leu Leu 25 Thr Leu Leu Gly Asn Gly Ala Ile Val Cys Ala Val Lys Leu Asp Arg 40 Arg Leu His Thr Pro Met Tyr Ile Leu Leu Gly Asn Phe Ala Phe Leu 55 60 Glu Ile Trp Tyr Ile Ser Ser Thr Val Pro Asn Met Leu Val Asn Ile 70 75 Leu Ser Glu Ile Lys Thr Ile Ser Phe Ser Gly Cys Phe Leu Gln Phe 85 90 Tyr Phe Phe Phe Ser Leu Gly Thr Thr Glu Cys Phe Phe Leu Ser Val 105 110 Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Arg Pro Leu His Tyr Pro 115 120 Ser Ile Met Thr Gly Lys Phe Cys Ile Ile Leu Val Cys Val Cys Trp 135 Val Gly Gly Phe Leu Cys Tyr Pro Val Pro Ile Val Leu Ile Ser Gln

```
150
                                        155
Leu Pro Phe Cys Gly Pro Asn Ile Ile Asp His Leu Val Cys Asp Pro
                165
                                   170
Gly Pro Leu Phe Ala Leu Ala Cys Ile Ser Ala Pro Ser Thr Glu Leu
            180
                                                    190
                                185
 Ile Cys Tyr Thr Phe Asn Ser Met Ile Ile Phe Gly Pro Phe Leu Ser
                            200
                                                205
Ile Leu Gly Ser Tyr Thr Leu Val Ile Arg Ala Val Leu Cys Ile Pro
                        215
                                            220
Ser Gly Ala Gly Arg Thr Lys Ala Phe Ser Thr Cys Gly Ser His Leu
                    230
                                        235
Met Val Val Ser Leu Phe Tyr Gly Thr Leu Met Val Met Tyr Val Ser
                245
                                    250
Pro Thr Ser Gly Asn Pro Ala Gly Met Gln Lys Ile Ile Thr Leu Val
            260
                                265
                                                    270
Tyr Thr Ala Met Thr Pro Phe Leu Asn Pro Leu Ile Tyr Ser Leu Arg
                           280
                                               285
Asn Lys Asp Met Lys Asp Ala Leu Lys Arg Val Leu Gly Leu Thr Val
   290
                       295
Ser Gln Asn
305
<210> 1486
<211> 256
<212> PRT
<213> Unknown (H38g403 protein)
<220>
<223> Synthetic construct
<400> 1486
Met Tyr Asn Phe Ile Ser Ile Phe Ser Phe Leu Glu Ile Trp Tyr Thr
                                    10
Thr Ala Thr Ile Pro Lys Met Leu Ser Ile Leu Ile Ser Arg Gln Arg
                                25
Thr Ile Ser Met Val Gly Cys Leu Leu Gln Met Tyr Phe Phe His Ser
                            40
Leu Gly Asn Ser Glu Gly Ile Leu Leu Thr Thr Met Ala Ile Asp Arg
                        55
                                           60
Tyr Val Ala Ile Cys Asn Pro Leu Arg Tyr Pro Thr Ile Met Thr Pro
                                        75
Gly Leu Cys Val Gln Leu Ser Val Gly Ser Cys Ile Phe Gly Phe Leu
Val Leu Pro Glu Ile Ala Trp Ile Ser Thr Leu Pro Phe Cys Gly
           100
                                105
Pro Asn Gln Ile His Gln Ile Phe Cys Asp Phe Glu Pro Val Leu Arg
                           120
                                                125
Leu Ala Cys Thr Asp Thr Ser Met Ile Leu Ile Glu Asp Val Ile His
                       135
                                           140
Ala Val Ala Ile Val Phe Ser Val Leu Ile Ile Ala Leu Ser Tyr Ile
                                       155
Arg Ile Ile Thr Val Ile Leu Arg Ile Pro Ser Val Glu Gly Arg Gln
               165
                                   170
Lys Ala Phe Ser Thr Cys Ala Ala His Leu Ser Val Phe Leu Met Phe
          180
                               185
Tyr Gly Ser Val Ser Leu Met Tyr Leu Arg Phe Ser Ala Thr Phe Pro
                           200
                                              205
Pro Ile Leu Asp Thr Ala Val Ala Leu Met Phe Ala Val Leu Ala Pro
                       215
                                           220
Phe Phe Asn Pro Ile Ile Tyr Ser Phe Arg Asn Lys Asp Met Lys Ile
                   230
                                       235
```

Ala Ile Lys Lys Leu Phe Cys Pro Gln Lys Met Val Asn Leu Ser Val

245 250 <210> 1487 <211> 320 <212> PRT <213> Unknown (H38g404 protein) <223> Synthetic construct <221> VARIANT <222> (1)...(320) <223> Xaa = Any Amino Acid <400> 1487 Ser Leu Gly Ser Met Asn Asn Ser Gln Ile Ser Thr Val Thr Gln Phe 1 10 5 Val Leu Gly Phe Pro Gly Pro Trp Lys Ile Gln Ile Ile Phe Phe 20 25 Ser Met Ile Leu Leu Val Tyr Ile Phe Thr Leu Thr Gly Asn Met Ala 40 45 Ile Ile Cys Ala Val Arg Trp Asp His Arg Leu His Thr Pro Met Tyr 55 Val Leu Leu Ala Asn Phe Ser Phe Leu Glu Ile Trp Tyr Val Thr Cys 75 70 Thr Val Pro Asn Met Leu Val Asn Phe Phe Ser Lys Thr Lys Thr Ile 90 Ser Phe Ser Gly Cys Phe Thr Gln Phe His Phe Phe Ser Leu Gly 105 Thr Thr Glu Cys Phe Phe Leu Cys Val Met Ala Tyr Asp Arg Tyr Leu 120 125 Ala Ile Cys His Pro Leu His Tyr Pro Ser Ile Met Thr Gly Gln Leu 135 140 Cys Gly Ile Leu Val Ser Leu Cys Trp Leu Ile Gly Phe Leu Gly His 150 155 Ser Ile Ser Ile Phe Phe Ile Phe Gln Leu Pro Phe Cys Gly Pro Asn 165 170 Ile Ile Asp His Phe Leu Cys Asp Val Asp Pro Leu Met Ala Leu Ser 190 180 185 Ser Ala Pro Thr His Ile Ile Gly His Val Phe His Ser Val Ser Ser 200 205 Leu Phe Ile Asn Leu Thr Met Val Tyr Ile Leu Gly Ser Tyr Thr Leu 220 215 Val Leu Arg Thr Val Leu Xaa Val Pro Ser Ser Ala Gly Trp Gln Lys 230 235 Ala Ile Ser Thr Cys Gly Ser His Leu Val Val Val Ser Leu Phe Tyr 250 245 Gly Ala Ile Met Leu Met Tyr Val Ser Pro Thr Pro Gly Asn Ser Val 265 Ala Met His Lys Leu Ile Thr Leu Ile Tyr Ser Val Val Thr Pro Val 280 Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Tyr Ala 295 300 Leu His His Val Phe Cys Gly Met Arg Ile Ile Gln Arg Ser Xaa Ile 310 315 <210> 1488 <211> 319 <212> PRT <213> Unknown (H38g405 protein)

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<220>
 <223> Synthetic construct
<221> VARIANT
 <222> (1)...(319)
 <223> Xaa = Any Amino Acid
 <400> 1488
Met Asp Pro Glu Asn Gln Thr Met Val Thr Glu Phe Tyr Phe Ser Asp
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Phe Pro Gln Ser Lys Asn Gly Ser Leu Leu Phe Phe Ile Pro Met Leu
            20
                                 25
Phe Ile Tyr Ile Phe Ile Leu Val Gly Asn Phe Met Ile Phe Phe Ala
                            40
                                                 45
Val Gln Pro Asp Pro His Leu His Asn Pro Met Tyr Ser Phe Ile Ser
                        55
                                             60
Val Phe Ser Phe Leu Glu Ile Trp Tyr Thr Thr Val Thr Ile Pro Lys
                                        75
Met Leu Ser Asn Leu Leu Ser Glu Gln Lys Thr Ile Ser Phe Ile Gly
Cys Leu Leu Gln Met Tyr Phe Phe His Ser Leu Gly Val Thr Glu Ala
            100
                                105
Leu Val Leu Thr Val Met Ala Ile Asp Arg Cys Val Ala Ile Cys Asn
       115
                            120
                                                 125
Pro Leu Arg Tyr Ala Ile Thr Met Ser Pro Xaa Leu Cys Ile Gln Leu
                        135
                                            140
Ser Thr Gly Ser Cys Ile Phe Gly Phe Leu Met Leu Leu Pro Glu Ile
                    150
                                        155
Val Cys Ile Ser Thr Leu Pro Phe Cys Gly Ala Asn Gln Ile His Gln
                165
                                    170
Leu Phe Cys Asp Phe Glu Pro Val Leu Gln Leu Ala Cys Thr Asp Thr
                                185
            180
Tyr Ile Ile Leu Val Glu Asp Val Ile Arg Ala Ile Ser Ile Leu Thr
                            200
                                                 205
Ser Val Ser Val Ile Thr Leu Phe Tyr Leu Arg Ile Ile Thr Val Ile
                        215
                                            220
Leu Arg Ile Pro Ser Gly Glu Ser Arg Gln Lys Ala Phe Phe Thr Cys
                    230
                                        235
Ala Ala His Ile Ala Ile Phe Leu Leu Phe Phe Gly Ser Val Ser Leu
                245
                                    250
Met Tyr Leu Arg Phe Ser Val Thr Phe Pro Pro Leu Leu Asp Lys Ala
                                265
Ile Ala Leu Met Phe Ala Val Leu Ala Leu Leu Phe Asn Pro Val Ile
        275
                            280
Tyr Ser Leu Arg Asn Lys Asp Met Lys Asn Ala Thr Lys Lys Ile Leu
                       295
                                            300
Cys Ser Gln Lys Met Phe Asn Ala Ser Gly Ser Xaa Trp Ser Ser
                    310
                                        315
<210> 1489
<211> 317
<212> PRT
<213> Unknown (H38g406 protein)
<220>
<223> Synthetic construct
<400> 1489
Met Thr Gln Leu Thr Ala Ser Gly Asn Gln Thr Met Val Thr Glu Phe
                                    10
```

```
Leu Phe Ser Met Phe Pro His Ala His Arg Gly Gly Leu Leu Phe Phe
                                25
Ile Pro Leu Leu Leu Ile Tyr Gly Phe Ile Leu Thr Gly Asn Leu Ile
                            40
Met Phe Ile Val Ile Gln Val Gly Met Ala Leu His Thr Pro Leu Tyr
                       55
Phe Phe Ile Ser Val Leu Ser Phe Leu Glu Ile Cys Tyr Thr Thr
                                        75
                   70
Thr Ile Pro Lys Met Leu Ser Cys Leu Ile Ser Glu Gln Lys Ser Ile
                                    90
               85
Ser Val Ala Gly Cys Leu Leu Gln Met Tyr Phe Phe His Ser Leu Gly
                                105
           100
Ile Thr Glu Ser Cys Val Leu Thr Ala Met Ala Ile Asp Arg Tyr Ile
                           120
                                               125
        115
Ala Ile Cys Asn Pro Leu Arg Tyr Pro Thr Ile Met Ile Pro Lys Leu
                       135
                                           140
Cys Ile Gln Leu Thr Val Gly Ser Cys Phe Cys Gly Phe Leu Leu Val
                   150
                                        155
Leu Pro Glu Ile Ala Trp Ile Ser Thr Leu Pro Phe Cys Gly Ser Asn
                                   170
               165
Gln Ile His Gln Ile Phe Cys Asp Phe Thr Pro Val Leu Ser Leu Ala
                                185
           180
Cys Thr Asp Thr Phe Leu Val Val Ile Val Asp Ala Ile His Ala Ala
                            200
                                                205
       195
Glu Ile Val Ala Ser Phe Leu Val Ile Ala Leu Ser Tyr Ile Arg Ile
                                            220
                       215
Ile Ile Val Ile Leu Gly Met His Ser Ala Glu Gly His His Lys Ala
                   230
                                        235
Phe Ser Thr Cys Ala Ala His Leu Ala Val Phe Leu Leu Phe Phe Gly
                                    250
                245
Ser Val Ala Val Met Tyr Leu Arg Phe Ser Ala Thr Tyr Ser Val Phe
                                                    270
                                265
           260
Trp Asp Thr Ala Ile Ala Val Thr Phe Val Ile Leu Ala Pro Phe Phe
                                                285
       275
                            280
Asn Pro Ile Ile Tyr Ser Leu Lys Asn Lys Asp Met Lys Glu Ala Ile
                                            300
                       295
Gly Arg Leu Phe His Tyr Gln Lys Arg Ala Gly Trp Ala
                   310
<210> 1490
<211> 277
<212> PRT
<213> Unknown (H38g407 protein)
<220>
<223> Synthetic construct
<400> 1490
Met Ala Leu Ile Gly Asn Leu Ser Met Ile Leu Leu Ile Phe Leu Asp
Thr His Leu His Thr Pro Met Tyr Phe Leu Leu Ser Gln Leu Ser Leu
                                25
Ile Asp Leu Asn Tyr Ile Ser Thr Ile Val Pro Lys Met Ala Ser Asp
                            40
Phe Leu Ser Gly Asn Lys Ser Ile Ser Phe Thr Gly Cys Gly Ile Gln
Ser Phe Phe Phe Ser Ala Leu Gly Gly Ala Glu Ala Leu Leu Ala
                                        75
                    70
Ser Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Phe Pro Leu His Tyr
                                    90
```

Pro Ile Arg Met Ser Lys Arg Met Cys Val Leu Met Ile Thr Gly Ser

```
105
                                                     110
            100
Trp Ile Ile Gly Ser Ile Asn Ala Cys Ala His Thr Val Tyr Val Leu
                                                125
                           120
His Ile Pro Tyr Cys Gln Ser Arg Ala Ile Asn His Phe Phe Cys Asp
                                            140
                        135
Val Pro Ala Met Val Thr Leu Ala Cys Met Asp Thr Trp Val Tyr Glu
                                        155
                    150
Gly Thr Val Phe Leu Ser Thr Thr Ile Phe Leu Val Phe Pro Phe Ile
                                    170
               165
Ala Ile Ser Cys Ser Tyr Gly Arg Val Leu Leu Ala Val Tyr His Met
                                                    190
                                185
            180
Lys Ser Ala Glu Gly Arg Lys Lys Ala Tyr Leu Thr Cys Ser Thr His
                                                 205
                            200
Leu Thr Val Val Thr Phe Tyr Tyr Ala Pro Phe Val Tyr Thr Tyr Leu
                                            220
                        215
Arg Pro Arg Ser Leu Arg Ser Pro Thr Glu Asp Lys Val Leu Ala Val
                                        235
                    230
Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu
                                     250
Arg Asn Lys Glu Val Met Gly Ala Leu Thr Arg Val Ser Gln Arg Ile
                                265
Cys Ser Val Lys Met
        275
<210> 1491
<211> 241
<212> PRT
<213> Unknown (H38g408 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(241)
<223> Xaa = Any Amino Acid
<400> 1491
Met Asp Arg Val Asn Asn Ser Ala Val Ser Lys Phe Val Leu Ile Gly
                                     10
Leu Ser Ser Ser Trp Glu Met His Leu Phe Leu Phe Trp Phe Phe Ser
                                 25
Val Phe Tyr Met Gly Ile Ile Leu Glu Asn Leu Phe Ile Val Phe Thr
                            40
Val Ile Ile Asp Ser His Leu Asn Ser Pro Val Tyr Cys Leu Leu Ala
                        55
Asn Ile Tyr Leu Leu Asp Leu Val Phe Ser Tyr Ser Ser Asp Phe Phe
                                         75
                    70
Thr Asn Cys Ser Ile Ile Ser Phe Pro Arg Cys Met Ile Gln Ile Phe
                                     90
                 85
Phe Ile Cys Val Met Arg Lys Ile Glu Met Val Leu Leu Ile Thr Met
                                105
Ala Xaa Ser Arg Tyr Thr Ala Ile Cys Lys Pro Pro His Tyr Leu Thr
                            120
                                                 125
Thr Met Asn Pro Lys Met Cys Val Ser Leu Leu Glu Ala Ser Trp Ile
                                            140
                        135
Val Arg Ile Ile His Ala Val Ser Gln Phe Val Phe Ala Ile Asn Leu
                                         155
                    150
Pro Phe Cys Gly Pro Asn Arg Val Gly Ser Phe His Cys Asp Phe Pro
                                     170
                 165
 Tyr Val Met Lys Leu Ala Cys Val Asp Thr Tyr Lys Leu Glu Val Val
                                185
             180
```

```
Val Thr Ala Asn Ser Gly Leu Ile Ser Ile Ala Thr Cys Phe Leu Leu
                      200
Ile Ile Ser Tyr Ile Phe Ile Ser Val Thr Val Xaa Asn Pro Ser Ser
                                         220
                    215
Gly Asp Leu Ser Lys Ala Phe Val Ser Cys Ser Asp His Ile Thr Val
225 230
                                     235
Gly
<210> 1492
<211> 312
<212> PRT
<213> Unknown (H38g409 protein)
<223> Synthetic construct
<400> 1492
Met Asp Thr Gly Asn Trp Ser Gln Val Ala Glu Phe Ile Ile Leu Gly
        5
                      10
Phe Pro His Leu Gln Gly Val Gln Ile Tyr Leu Phe Leu Leu Leu Leu
                             25
       20
Leu Ile Tyr Leu Met Thr Val Leu Gly Asn Leu Leu Ile Phe Leu Val
                          40
Val Cys Leu Asp Ser Arg Leu His Thr Pro Met Tyr His Phe Val Ser
                                       60
                      55
Ile Leu Ser Phe Ser Glu Leu Gly Tyr Thr Ala Ala Thr Ile Pro Lys
               70
                                     75
65
Met Leu Ala Asn Leu Phe Ser Glu Lys Lys Thr Ile Ser Phe Ser Gly
                                 90
Cys Leu Leu Gln Ile Tyr Phe Phe His Ser Leu Gly Ala Thr Glu Cys
                             105
                                                 110
Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Arg
                          120
                                             125
Pro Leu His Tyr Pro Thr Leu Met Thr Pro Thr Leu Cys Ala Glu Ile
                      135
                                         140
Ala Ile Gly Cys Trp Leu Gly Gly Leu Ala Gly Pro Val Val Glu Ile
                                    155
                  150
Ser Leu Ile Ser Arg Leu Pro Phe Cys Gly Pro Asn Arg Ile Gln His
                                 170
              165
Val Phe Cys Asp Phe Pro Pro Val Leu Ser Leu Ala Cys Thr Asp Thr
                                                190
                             185
Ser Thr Asn Val Leu Val Asp Phe Val Ile Asn Ser Cys Lys Ile Leu
                                             205
                         200
Ala Thr Phe Leu Leu Ile Leu Cys Ser Tyr Val Gln Ile Ile Cys Thr
                                         220
                      215
Val Leu Arg Ile Pro Ser Ala Ala Gly Lys Arg Lys Ala Ile Ser Thr
                   230
                                     235
Cys Ala Ser His Leu Thr Val Val Leu Ile Phe Tyr Gly Ser Ile Leu
                                  250
               245
Ser Met Tyr Val Arg Leu Lys Lys Ser Tyr Ser Leu Asp Tyr Asp Gln
           260
                              265
Ala Leu Ala Val Val Tyr Ser Val Leu Thr Pro Phe Leu Asn Pro Phe
                         280
                                             285
Ile Tyr Ser Leu His Asn Lys Glu Ile Lys Glu Ala Val Arg Arg Gln
                      295
Leu Lys Arg Ile Gly Ile Leu Ala
                  310
<210> 1493
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<210> 1493 <211> 212

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<212> PRT
<213> Unknown (H38g410 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(212)
<223> Xaa = Any Amino Acid
<400> 1493
Glu Phe Leu Phe Tyr Asn Tyr Asn Gln Thr Ser Thr Asp Phe Ile Leu
                                   10
Leu Gly Leu Phe Pro Gln Ser Arg Ile Gly Leu Phe Val Phe Thr Leu
          20
                               25
Ile Phe Leu Ile Phe Leu Met Ala Leu Ile Gly Asn Leu Ser Met Ile
                           40
Leu Leu Ile Phe Leu Asp Ile His Leu His Thr Pro Met Tyr Phe Leu
                        55
Leu Ser Gln Leu Ser Leu Ile Asp Leu Asn Tyr Ile Ser Thr Ile Val
                                       75
Pro Lys Met Val Tyr Asp Phe Leu Tyr Gly Asn Lys Ser Ile Ser Phe
               85
                                   90
Thr Gly Cys Gly Ile Gln Ser Phe Phe Leu Thr Leu Ala Val Ala
           100
                               105
                                                   110
Glu Gly Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile
                                               125
                           120
Cys Phe Pro Leu His Tyr Pro Ile Arg Ile Ser Lys Arg Val Cys Val
                       135
                                           140
Met Met Ile Thr Gly Ser Trp Met Ile Ser Ser Ile Asn Ser Cys Ala
                   150
                                       155
His Thr Val Tyr Ala Leu Cys Ile Pro Tyr Cys Lys Ser Arg Ala Ile
                                   170
Asn His Phe Phe Cys Glu Gly Ser Ser Glu Arg Tyr Leu Gly Cys Met
                               185
           180
Gln Ala Trp Arg Trp Ala Ala Val Glu Thr Ala Xaa Leu Val Lys Pro
                           200
       195
Trp Ala Gly Pro
   210
<210> 1494
<211> 263
<212> PRT
<213> Unknown (H38g411 protein)
<220> -
<223> Synthetic construct
<400> 1494
Met Leu Gly Asn Tyr Ser Ser Ala Thr Glu Phe Phe Leu Leu Gly Phe
                                   10
Pro Gly Ser Gln Glu Val Cys Arg Ile Leu Phe Ala Thr Phe Phe Leu
                               25
Leu Tyr Ala Val Thr Val Met Gly Asn Val Val Ile Ile Ile Thr Val
                           40
Cys Val Asp Lys Cys Leu Gln Ser Pro Ile Tyr Phe Phe Leu Gly His
Leu Cys Val Leu Glu Ile Leu Ile Thr Ser Thr Ala Val Pro Phe Met
                   70
                                       75
Leu Trp Gly Leu Leu Pro Ser Thr Gln Ile Met Ser Leu Thr Ala
```

90

جوارية في معرود الوال المستداد الأواليا

```
Cys Ala Ala Gln Leu Tyr Leu Tyr Leu Ser Leu Gly Thr Leu Glu Leu
                                105
                                                    110
Ala Leu Met Gly Val Met Ala Val Asp Arg Tyr Val Ala Val Cys Asn
                                                125
                           120
Pro Leu Arg Tyr Asn Ile Ile Met Asn Ser Ser Thr Phe Ile Trp Val
                                           140
                       135
Ile Ile Val Ser Trp Val Leu Gly Phe Leu Ser Glu Ile Trp Pro Val
                                       155
                   150
Tyr Ala Thr Phe Gln Leu Thr Phe Cys Lys Ser Ser Val Leu Asp His
                                                       175
                                   170
               165
Phe Tyr Cys Asp Arg Gly Gln Leu Leu Lys Val Ser Cys Glu Asp Thr
                               185
                                                   190
           180
Leu Phe Arg Glu Phe Ile Leu Phe Leu Met Ala Val Phe Ile Ile Ile
                           200
      195
Gly Ser Leu Ile Pro Thr Ile Val Ser Tyr Thr Tyr Ile Ile Ser Thr
                       215
                                           220
Asn Leu Lys Ile Pro Ser Ala Ser Gly Trp Arg Lys Ser Phe Ser Thr
                                      235
                   230
Cys Ala Ser His Phe Thr Tyr Val Val Ile Gly Tyr Gly Ser Cys Leu
                                   250
               245
Phe Leu Tyr Val Lys Pro Lys
           260
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<210> 1495

<211> 317

<212> PRT

<213> Unknown (H38g412 protein)

<220>

<223> Synthetic construct

<400> 1495

Met Asp Gln Tyr Asn His Ser Ser Leu Ala Glu Phe Val Phe Leu Gly Phe Ala Ser Val Gly Tyr Val Arg Gly Trp Leu Phe Val Leu Leu Leu 25 Leu Ala Tyr Leu Phe Thr Ile Cys Gly Asn Met Leu Ile Phe Ser Val 40 Ile Arg Leu Asp Ala Ala Leu His Thr Pro Met Tyr His Phe Val Ser 60 Val Leu Ser Phe Leu Glu Leu Trp Tyr Thr Ala Thr Thr Ile Pro Lys 75 70 Met Leu Ser Asn Ile Leu Ser Glu Lys Lys Thr Ile Ser Phe Ala Gly 90 85 Cys Leu Leu Gln Thr Tyr Phe Phe His Ser Leu Gly Ala Ser Glu Cys 100 105 110 Tyr Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Arg 125 120 Pro Leu His Tyr Pro Ile Ile Met Thr Thr Thr Leu Cys Ala Lys Met 135 140 Ala Ala Cys Trp Thr Cys Gly Phe Leu Cys Pro Ile Ser Glu Val 150 155 Ile Leu Ala Ser Gln Leu Pro Phe Cys Ala Tyr Asn Glu Ile Gln His 170 Ile Phe Cys Asp Phe Pro Pro Leu Leu Ser Leu Ala Cys Lys Asp Thr 185 190 180 Ser Ala Asn Ile Leu Val Asp Phe Ala Ile Asn Ala Phe Ile Ile Leu 200 205 Ile Thr Phe Phe Phe Ile Met Ile Ser Tyr Ala Arg Ile Ile Gly Ala 215 220 Val Leu Lys Ile Lys Thr Ala Ser Gly Arg Lys Lys Ala Phe Ser Thr

```
230
                                       235
225
Cys Ala Ser His Leu Ala Val Val Leu Ile Phe Phe Gly Ser Ile Ile
               245
                                   250
Phe Met Tyr Val Arg Leu Lys Lys Ser Tyr Ser Leu Thr Leu Asp Arg
                               265
           260
Thr Leu Ala Ile Val Tyr Ser Val Leu Thr Pro Met Val Asn Pro Ile
                                               285
                           280
       275
Ile Tyr Ser Leu Arg Asn Lys Glu Ile Ile Lys Ala Ile Lys Arg Thr
                      295
Ile Phe Gln Lys Gly Asp Lys Ala Ser Leu Ala His Leu
                   310
<210> 1496
<211> 315
<212> PRT
<213> Unknown (H38g413 protein)
<220>
<223> Synthetic construct
<400> 1496
Met Gln Gly Leu Asn His Thr Ser Val Ser Glu Phe Ile Leu Val Gly
                                    10
Phe Ser Ala Phe Pro His Leu Gln Leu Met Leu Phe Leu Phe Leu
           20
                                25
Leu Met Tyr Leu Phe Thr Leu Leu Gly Asn Leu Leu Ile Met Ala Thr
                                               45
                           40
       35
Val Trp Ser Glu Arg Ser Leu His Met Pro Met Tyr Leu Phe Leu Cys
                       55
                                           60
Ala Leu Ser Ile Thr Glu Ile Leu Tyr Thr Val Ala Ile Ile Pro Arg
                                       75
                   70
Met Leu Ala Asp Leu Leu Ser Thr Gln Arg Ser Ile Ala Phe Leu Ala
               85
                                   90
Cys Ala Ser Gln Met Phe Phe Ser Phe Ser Phe Gly Phe Thr His Ser
                               105
           100
Phe Leu Leu Thr Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys His
                           120
Pro Leu Arg Tyr Asn Val Leu Met Ser Leu Arg Gly Cys Thr Cys Arg
                        135
                                            140
Val Gly Cys Ser Trp Ala Gly Gly Leu Val Met Gly Met Val Val Thr
                   150
                                       155
Ser Ala Ile Phe His Leu Ala Phe Cys Gly His Lys Glu Ile His His
                                    170
                165
Phe Phe Cys His Val Pro Pro Leu Leu Lys Leu Ala Cys Gly Asp Asp
                                185
Val Leu Val Val Ala Lys Gly Val Gly Leu Val Cys Ile Thr Ala Leu
                           200
                                               205
Leu Gly Cys Phe Leu Leu Ile Leu Leu Ser Tyr Ala Phe Ile Val Ala
                                           220
                       215
Ala Ile Leu Lys Ile Pro Ser Ala Glu Gly Arg Asn Lys Ala Phe Ser
                   230
                                       235
Thr Cys Ala Ser His Leu Thr Val Val Val His Tyr Gly Phe Ala
                                    250
               245
Ser Val Ile Tyr Leu Lys Pro Lys Gly Pro Gln Ser Pro Glu Gly Asp
                                265
                                                    270
           260
Thr Leu Met Gly Ile Thr Tyr Thr Val Leu Thr Pro Phe Leu Ser Pro
                           280
                                               285
        275
Ile Ile Phe Ser Leu Arg Asn Lys Glu Leu Lys Val Ala Met Lys Lys
                        295
                                           300
Thr Cys Phe Thr Lys Leu Phe Pro Gln Asn Cys
                    310
```

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<210> 1497
 <211> 319
 <212> PRT
 <213> Unknown (H38g414 protein)
 <223> Synthetic construct
 <221> VARIANT
 <222> (1)...(319)
 <223> Xaa = Any Amino Acid
 <400> 1497
His Thr Glu Pro Arg His Leu Thr Gly Val Xaa Glu Phe Leu Leu
                            10
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Ser
Pro Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Val Ile Leu
                            40
Ala Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
                    55
                                        60
Ser Asn Pro Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Thr Val Pro
                    70
                                       75
Lys Met Thr Val Asp Met Gln Ser His Ile Arg Val Ile Ser Tyr Ala
                85
                                   90
Ser Cys Leu Thr Arg Met Ser Phe Leu Val Leu Phe Ala Cys Ile Glu
            100
                                105
Asp Met Leu Leu Thr Val Met Ala Xaa Asp Cys Phe Val Ala Ile Cys
                           120
                                               125
Arg Pro Leu His Tyr Ala Val Ile Val Asn Pro His Leu Cys Val Phe
                        135
                                           140
Leu Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His
                   150
                                       155
Ser Xaa Ile Leu Gln Phe Thr Phe Phe Lys Asn Val Glu Ile Ser His
               165
                                   170
Phe Val Cys Glu Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp Ser
           180
                               185
                                                   190
Val Ile Asn Ser Ile Phe Met Tyr Phe Asn Ser Thr Met Phe Gly Phe
                            200
                                               205
Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro Ser
                       215
                                          220
Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser Thr
                  230
                                       235
Cys Gly Ser His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly Ile
               245
                                   250
Gly Met Tyr Leu Thr Ser Ala Val Ala Pro Pro Pro Arg Asn Gly Val
                               265
Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu Asn Pro Phe
        275
                           280
                                               285
Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Trp Arg Leu
                      295
                                          300
Arg Ser Arg Thr Val Glu Ser His Asp Leu Phe His Pro Phe Ser
                  310
                                       315
<210> 1498
<211> 157
<212> PRT
<213> Unknown (H38g415 protein)
<220>
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<223> Synthetic construct
<221> VARIANT
<222> (1)...(157)
<223> Xaa = Any Amino Acid
<400> 1498
Val Ser Pro Leu Trp Glu Cys Val Ser Xaa Gln Arg Ser Pro His Phe
                                    10
Leu Cys Ser Gly Asp Ser Val Phe Cys Leu Val His Ser Val Gly Cys
            20
                                25
Cys Thr Leu Leu Ser Gln Ser Leu Arg Leu Leu Ser Val Phe Leu
                            40
Leu Ser Ser Cys Ala Ala Ser Trp Lys Lys Val His Ser Met Asn Leu
Tyr Thr Pro Phe Cys Leu Ser Lys Trp Xaa Asn His Val Asn Asn Ala
Phe Asn Leu Pro Ser Trp Lys Lys Ser Lys Ser Val Val Thr Met Phe
                                    90
Xaa Gly Pro Ala Met Ile Thr Tyr Leu Arg Ser Asp Ser Xaa Tyr Asn
                                105
Pro Thr Val Gly Lys Gln Leu Val Leu Phe Tyr Ser Ile Val Ser Ala
                            120
Phe Ile Lys Pro Ile Ile Ser Ser Leu Arg Asn Lys Asp Val Lys Gly
                        135
Ala Ser Trp Lys Val Leu Arg Val Lys Gly Thr Ala Gln
                    150
<210> 1499
<211> 287
<212> PRT
<213> Unknown (H38g416 protein)
<220>
<223> Synthetic construct
<400> 1499
Met Glu Asn Tyr Asn Gln Thr Ser Thr Asp Phe Ile Leu Leu Gly Leu
                                    10
Phe Pro Pro Ser Arg Ile Asp Leu Phe Phe Phe Ile Leu Phe Val Leu
                                25
Ile Phe Leu Met Ala Leu Ile Gly Asn Leu Ser Met Ile Leu Leu Ile
                            40
Phe Leu Asp Thr His Leu His Thr Pro Met Tyr Phe Leu Leu Ser Gln
                        55
                                            60
Leu Ser Leu Ile Asp Leu Asn Tyr Ile Ser Thr Ile Val Pro Lys Met
                                        75
Ala Ser Asp Phe Leu Tyr Gly Asn Lys Ser Ile Ser Phe Ile Gly Cys
                                    90
Gly Ile Gln Ser Phe Phe Phe Met Thr Phe Ala Gly Ala Glu Ala Leu
                                105
Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro
                            120
Leu His Tyr Pro Ile Arg Met Ser Lys Arg Met Tyr Val Leu Met Ile
                       135
Thr Gly Ser Trp Met Ile Gly Ser Ile Asn Ser Cys Ala His Thr Val
                   150
                                       155
Tyr Ala Phe Arg Ile Pro Tyr Cys Lys Ser Arg Ala Ile Asn His Phe
                                   170
                165
Phe Cys Asp Val Pro Ala Met Leu Thr Leu Ala Cys Thr Asp Thr Trp
                               185
```

Val Tyr Glu Tyr Thr Val Phe Leu Ser Ser Thr Ile Phe Leu Val Phe 200 Pro Phe Thr Gly Ile Ala Cys Ser Tyr Gly Trp Val Leu Leu Ala Val 215 220 Tyr Arg Met His Ser Ala Glu Gly Arg Lys Lys Ala Tyr Ser Thr Cys 230 235 Ser Thr His Leu Thr Val Val Thr Phe Tyr Tyr Ala Pro Leu Arg Tyr 245 250 Thr Tyr Leu Cys Pro Arg Ser Leu Phe Ile Ser Thr Glu Asp Lys Val 265 Gly Gly Gly Tyr Thr Ile Leu Thr Ser Met Leu Asn Pro Ile 280 <210> 1500 <211> 310 <212> PRT <213> Unknown (H38g417 protein) <223> Synthetic construct <400> 1500 Met Asp Lys Glu Asn Ser Ser Met Val Thr Glu Phe Ile Phe Met Gly 5 10 Ile Thr Gln Asp Pro Gln Met Glu Ile Ile Phe Phe Val Val Phe Leu 20 25 Ile Val Tyr Leu Val Asn Val Val Gly Asn Ile Gly Met Ile Ile Leu 40 45 Ile Thr Thr Asp Thr Gln Leu His Thr Pro Met Tyr Phe Phe Leu Cys 55 Asn Leu Ser Phe Val Asp Leu Gly Tyr Ser Ser Ala Ile Ala Pro Arg 70 75 Met Leu Ala Asp Phe Leu Thr Asn His Lys Val Ile Ser Phe Ser Ser 85 90 Cys Ala Thr Gln Phe Ala Phe Phe Val Gly Phe Val Asp Ala Glu Cys 105 Tyr Val Leu Ala Ala Met Ala Tyr Gly Arg Phe Val Ala Ile Cys Arg 115 120 Pro Leu His Tyr Ser Thr Phe Met Ser Lys Gln Val Cys Leu Ala Leu 135 140 Met Leu Gly Ser Tyr Leu Ala Gly Leu Val Ser Leu Val Ala His Thr 150 155 Thr Leu Thr Phe Ser Leu Ser Tyr Cys Gly Ser Asn Ile Ile Asn His 170 Phe Phe Cys Glu Ile Pro Pro Leu Leu Ala Leu Ser Cys Ser Asp Thr 180 185 Tyr Ile Ser Glu Ile Leu Leu Phe Ser Leu Cys Gly Phe Ile Glu Phe 200 205 Ser Thr Ile Leu Ile Ile Phe Ile Ser Tyr Thr Phe Ile Leu Val Ala 215 220 Ile Ile Arg Met Arg Ser Ala Glu Gly Arg Leu Lys Ala Phe Ser Thr 230 235 Cys Gly Ser His Leu Thr Gly Ile Thr Leu Phe Tyr Gly Thr Val Met 245 250 Phe Met Tyr Leu Arg Pro Thr Ser Ser Tyr Ser Leu Asp Gln Asp Lys 260 265 270 Trp Ala Ser Val Phe Tyr Thr Val Ile Ile Pro Met Leu Asn Pro Leu 280 285 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Phe Lys Lys Leu

300

295

Ile Gly Lys Lys Ser Gln

```
310
<210> 1501
<211> 335
<212> PRT
<213> Unknown (H38g418 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(335)
<223> Xaa = Any Amino Acid
<400> 1501
Ser Thr Asp Pro Gln Asn Leu Ile Asp Val Ser Ile Phe Leu Leu Leu
                                    10
                5
Gly Thr Ser Glu Asp Pro Glu Arg Gln Leu Val Leu Ala Gly Leu Phe
                                25
            20
Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
Ala Val Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
                    70
Lys Met Ile Val Asp Ile Arg Ser His Ser Arg Val Ile Ser Tyr Ala
                                    90
Gly Cys Leu Thr Gln Thr Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
                                105
Glu Asn Met Leu Leu Ser Val Met Ala Tyr Asp Gln Phe Val Ala Ile
                            120
                                                125
Cys His Pro Leu Tyr His Ser Ala Val Met Asn Pro Cys Phe Cys Gly
                        135
Phe Leu Val Leu Leu Thr Phe Phe Leu Ser Leu Leu Asp Ala Gln
                    150
                                        155
Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu
                                   170
               165
Ile Pro Asn Phe Phe Trp Asp Pro Ser Pro Leu Pro His Leu Ala Cys
           180
                                185
Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile
       195
                           200
                                                205
Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Lys Ile
                        215
                                            220
Val Ser Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala
                    230
                                        235
Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
                245
                                    250
Thr Gly Ile Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg
            260
                                265
                                                    270
Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu
                                                285
                           280
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser Val Leu
                                           300
                        295
Arg Trp Leu His Gly Ser Ser Val Xaa Ser Gln His Leu Leu Ile Cys
                                        315
                   310
Cys Ile Pro Phe Val Val Trp Val Lys Lys Gly Ser Arg Val Lys
                325
                                    330
<210> 1502
<211> 303
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305

<212> PRT

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<213> Unknown (H38g419 protein)
<220>
<223> Synthetic construct
<400> 1502
Met Asp His Val Ser His Asn Trp Thr Gln Ser Phe Ile Leu Ala Gly
                               10
Phe Thr Thr Gly Thr Leu Gln Pro Leu Ala Phe Leu Gly Thr Leu
           20
                               25
Cys Ile Tyr Leu Leu Thr Leu Ala Gly Asn Ile Leu Ile Ile Val Leu
                          40
    35
Val Gln Leu Asp Ser Gly Leu Phe Thr Pro Met Tyr Leu Phe Ile Ser
                                       60
Val Leu Ser Phe Val Glu Val Trp Tyr Val Ser Thr Thr Val Pro Met
                                   75
                  70
Leu Leu His Thr Leu Leu Gln Gly Cys Ser Pro Val Ser Ser Ala Val
                                  90
              85
Cys Phe Ile Gln Thr Met Phe Phe His Ser Leu Gly Met Thr Glu Cys
           100
                               105
Tyr Leu Leu Gly Val Met Ala Leu Asp Ser Tyr Leu Ile Ile Cys His
                                              125
                           120
Pro Leu His Tyr His Ala Leu Met Ser Arg Gln Val Gln Leu Arg Leu
                                           140
                       135
Ala Gly Ala Ser Trp Val Ala Gly Phe Ser Ala Ala Leu Val Pro Ala
                  150
                                      155
Thr Leu Thr Ala Thr Leu Pro Phe Cys Leu Lys Glu Val Ala His Tyr
                                  170
               165
Phe Cys Asp Leu Ala Pro Leu Met Arg Leu Ala Cys Val Asp Thr Ser
                               185
           180
Trp His Ala Arg Ala His Gly Thr Val Ile Gly Val Ala Thr Gly Cys
                           200
                                              205
     . 195
Asn Phe Val Leu Ile Leu Gly Leu Tyr Gly Gly Ile Leu Asn Ala Val
                                           220
                      215
Leu Lys Leu Pro Ser Ala Ala Ser Ser Ala Lys Ala Phe Ser Thr Cys
                                      235
                  230
Ser Ser His Val Thr Val Val Ala Leu Phe Tyr Ala Ser Ala Phe Thr
                                  250
               245
Val Tyr Val Gly Ser Pro Gly Ser Arg Pro Glu Ser Thr Asp Lys Leu
                               265
                                                   270
          260
Val Ala Leu Val Tyr Ala Leu Ile Thr Pro Phe Leu Asn Pro Ile Ile
                           280
                                               285
Tyr Ser Leu Arg Asn Lys Glu Val Lys Lys Ala Leu Arg Arg Val
                       295
   290
<210> 1503
<211> 336
<212> PRT
<213> Unknown (H38g420 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(336)
<223> Xaa = Any Amino Acid
<400> 1503
Pro Thr Lys Arg Glu Asn His Thr Val Ile Arg Glu Phe Val Phe Gln
                                  10
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Gly Phe Ser Ser Phe His Glu His Lys Leu Thr Leu Phe Val Val Phe

```
25
            20
Leu Thr Leu Cys Leu Leu Thr Leu Ala Gly Asn Val Ile Ile Val Thr
                            40
Ile Ile Ser Ile Asp Arg His Leu His Thr Pro Met Tyr Phe Phe Val
                        55
Ser Met Leu Ser Thr Ser Glu Thr Val Tyr Thr Leu Val Ile Val Pro
                   70
                                        75
Arg Met Leu Ser Ser Leu Leu Ser Leu Ser Gln Pro Ile Ser Leu Gly
                                    90
               85
Gly Cys Ala Thr Gln Met Phe Phe Phe Ile Thr Leu Ala Ile Asn Asn
                                105
Cys Phe Leu Leu Thr Ala Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys
                            120
                                                125
Asn Pro Leu Arg Tyr Met Ile Ile Met Asn Lys Lys Val Cys Val Gln
                                            140
                        135
Leu Val Cys Gly Ser Cys Ser Val Gly Leu Leu Val Ala Ile Val Gln
                                        155
                    150
Ile Ser Ser Val Phe Arg Leu Pro Phe Cys Asp Lys Gln Val Ala His
                                    170
Tyr Phe Cys Asp Ile His Pro Val Met Lys Leu Ser Cys Val Asp Thr
                                185
            180
Thr Leu His Asp Leu Ile Asn Phe Val Val Ser Ser Leu Val Ile Val
                                                205
                            200
Val Pro Leu Gly Leu Val Phe Ile Ser Tyr Ile Leu Ile Ile Ser Thr
                                            220
                        215
Ile Leu Lys Val Thr Ser Pro Glu Gly Arg Lys Lys Ala Phe Ala Thr
                    230
                                        235
Cys Ala Ser His Leu Thr Val Val Ile Ile His Tyr Gly Cys Ala Ser
                                   250
Ile Ala Tyr Leu Lys Pro Lys Ser Glu Asn Thr Arg Asp Gln Asp Gln
                               265
Leu Ile Ser Val Thr Tyr Thr Val Phe Thr Pro Leu Leu Asn Pro Val
                            280
        275
Val Tyr Thr Leu Arg Asn Lys Glu Val Lys Asn Ala Leu His Arg Ala
                       295
                                            300
Ile Gly Lys Lys Pro Phe Ala Xaa Asn Leu His Gln Phe Asp Ile Xaa
                                       315
                    310
Ser Val Met Ser Leu Gly Ile Phe Leu Ser Ser Arg Lys Leu Asn Pro
                                   330
                325
<210> 1504
<211> 315
<212> PRT
<213> Unknown (H38g421 protein)
<220>
<223> Synthetic construct
<400> 1504
Met Ser Ile Thr Lys Ala Trp Asn Ser Ser Ser Val Thr Met Phe Ile
                                   10
Leu Leu Gly Phe Thr Asp His Pro Glu Leu Gln Ala Leu Leu Phe Val
                                25
Thr Phe Leu Gly Ile Tyr Leu Thr Thr Leu Ala Trp Asn Leu Ala Leu
                            40
Ile Phe Leu Ile Arg Gly Asp Thr His Leu His Thr Pro Met Tyr Phe
                        55
```

90

75

Phe Leu Ser Asn Leu Ser Phe Ile Asp Ile Cys Tyr Ser Ser Ala Val

Ala Pro Asn Met Leu Thr Asp Phe Phe Trp Glu Gln Lys Thr Ile Ser

70

Phe Val Gly Cys Ala Ala Gln Phe Phe Phe Val Gly Met Gly Leu

```
100
                                105
Ser Glu Cys Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Ala Ala
        115
                            120
Ile Ser Ser Pro Leu Leu Tyr Pro Thr Ile Met Thr Gln Gly Leu Cys
                       135
                                            140
Thr Arg Met Val Val Gly Ala Tyr Val Gly Gly Phe Leu Ser Ser Leu
                    150
                                        155
Ile Gln Ala Ser Ser Ile Phe Arg Leu His Phe Cys Gly Pro Asn Ile
                                   170
                165
Ile Asn His Phe Phe Cys Asp Leu Pro Pro Val Leu Ala Leu Ser Cys
                              185
            180
Ser Asp Thr Phe Leu Ser Gln Val Val Asn Phe Leu Val Val Val Thr
        195
                            200
                                                205
Val Gly Gly Thr Ser Phe Leu Gln Leu Leu Ile Ser Tyr Gly Tyr Ile
                        215
                                            220
Val Ser Ala Val Leu Lys Ile Pro Ser Ala Glu Gly Arg Trp Lys Ala
                    230
                                        235
Cys Asn Thr Cys Ala Ser His Leu Met Val Val Thr Leu Leu Phe Gly
                245
                                    250
                                                        255
Thr Ala Leu Phe Val Tyr Leu Arg Pro Ser Ser Ser Tyr Leu Leu Gly
                                265
            260
Arg Asp Lys Val Val Ser Val Phe Tyr Ser Leu Val Ile Pro Met Leu
                           280
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Asp Ala Leu
                        295
Trp Lys Val Leu Glu Arg Lys Lys Val Phe Ser
                    310
<210> 1505
<211> 317
<212> PRT
<213> Unknown (H38g422 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(317)
<223> Xaa = Any Amino Acid
<400> 1505
Met Pro Xaa Lys Met Glu Ser Ile Asn Thr Asn Phe Thr Val Thr Glu
                5
                                    10
Phe Val Phe Leu Gly Leu Ser Ser Glu Pro Lys Ile Gln Leu Ile Leu
            20
                                25
                                                    30
Phe Ile Met Phe Leu Phe Tyr Leu Ser Thr Val Ala Gly Asn Val Ile
                            40
Ile Ile Thr Ile Ile Xaa Met Glu Pro Leu Leu Gln Thr Pro Met Tyr
                        55
                                            60
Phe Phe Leu Thr Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Ser Thr
                   70
                                        75
Asn Val Pro Gln Met Leu Ser Asn Met Ala Gly Lys Lys Asn Thr Ile
               85
                                    90
Ser Phe Ser Ser Cys Ala Thr Gln Met Tyr Phe Ser Leu Ser Phe Gly
           100
                               105
Ser Asp Cys Val Leu Leu Gly Val Met Ala Tyr Asp Arg Tyr Val Ala
                           120
                                                125
       115
Ile Cys His Pro Leu His Tyr Thr Phe Ile Met Asp Gln Asn Thr Cys
   130
                      135
                                           140
Ile Gln Leu Ala Val Ile Ser Trp Ser Ser Ser Phe Leu Ser Ser Met
```

```
155
                   150
Val Ile Asn Val Leu Thr Leu Ser Leu Pro Tyr Cys Gly Pro Asn Ile
                                   170
Leu Asn His Phe Phe Cys Glu Val Leu Ser Val Leu Arg Leu Ala Cys
                               185
Thr Asn Thr Ser Phe Thr Glu Leu Val Val Phe Ile Phe Ser Ile Ile
                            200
Ile Val Phe Ile Pro Phe Leu Leu Ile Val Val Ser Tyr Val Arg Ile
                                            220
                        215
Leu Gln Ser Val Leu Arg Met Arg Ser Ala Ser Gly Arg Tyr Gln Ala
                                        235
                   230
Leu Ser Thr Cys Thr Ser His Leu Thr Val Val Thr Leu Phe Tyr Gly
                                    250
               245
Thr Ala Ile Phe Met Asp Met Arg Pro Gln Ser Arg Ser Ser Trp Ala
                                265
Gly Gly Lys Ile Ile Ala Val Phe Tyr Thr Val Val Thr Pro Met Leu
                            280
        275
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Gln Asp Val Lys Gly Ala Arg
                        295
Arg Arg Ala Ile Ala Lys Gln Arg Met Xaa Gln Leu Leu
                    310
<210> 1506
<211> 340
<212> PRT
<213> Unknown (H38g423 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(340)
<223> Xaa = Any Amino Acid
<400> 1506
Met Pro Lys Leu Asn Ser Thr Phe Val Thr Glu Phe Leu Phe Glu Gly
                                    10
Phe Ser Ser Phe Arg Arg Gln His Lys Leu Val Phe Phe Val Val Phe
Leu Thr Leu Tyr Leu Leu Thr Leu Ser Gly Asn Val Ile Ile Met Thr
Ile Ile Arg Leu Asp His His Leu His Thr Pro Met Tyr Phe Phe Leu
                        55
                                            60
Cys Met Leu Ser Ile Ser Glu Thr Cys Tyr Thr Val Ala Ile Ile Pro
                                        75
                    70
His Met Leu Ser Gly Leu Leu Asn Pro His Gln Pro Ile Ala Thr Gln
                                   90
               85
Ser Cys Ala Thr Gln Leu Phe Phe Tyr Leu Thr Phe Gly Ile Asn Asn
                               105
           100
Cys Phe Leu Leu Thr Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys
                            120
Asn Pro Leu Arg Tyr Ser Val Ile Met Gly Lys Arg Ala Cys Ile Gln
                       135
Leu Ala Ser Gly Ser Leu Gly Ile Gly Leu Gly Met Ala Ile Val Gln
                                       155
Val Thr Ser Val Phe Gly Leu Pro Phe Cys Asp Ala Phe Val Ile Ser
                                   170
His Phe Phe Cys Asp Val Arg His Leu Leu Lys Leu Ala Cys Thr Asp
                                                    190
                               185
Thr Thr Val Asn Glu Ile Ile Asn Phe Val Val Ser Val Cys Val Leu
                            200
```

```
Val Leu Pro Met Gly Leu Val Phe Ile Ser Tyr Val Leu Ile Ile Ser
                                            220
                       215
Thr Ile Leu Lys Ile Ala Ser Ala Glu Gly Gln Lys Lys Ala Phe Ala
                   230
                                        235
Thr Cys Ala Ser His Leu Thr Val Val Ile Ile His Tyr Gly Cys Ala
                                   250
               245
Ser Ile Ile Tyr Leu Lys Pro Lys Ser Gln Ser Ser Leu Gly Gln Asp
                               265
           260
Arg Leu Ile Ser Val Thr Tyr Thr Ile Thr Pro Leu Leu Asn Pro Val
                           280
                                                285
       275
Val Tyr Ser Leu Lys Asn Lys Glu Val Lys Asp Ala Leu His Arg Ala
                                            300
                       295
Val Gly Gln Lys Thr Leu Ser Pro Xaa Xaa Arg Glu Val Val Lys Ala
                                    315
                   310
Phe Pro Phe Val Tyr Lys Tyr Val Leu Ile Phe Asn Ala Leu Ser Ile
                                   330
               325
Met Pro Leu Cys
           340
<210> 1507
<211> 313
<212> PRT
<213> Unknown (H38g424 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(313)
<223> Xaa = Any Amino Acid
<400> 1507
Met Asp Ile Gly Leu Ser Ile Ala Asn Ser Ser Gly Phe Gln Leu Ser
                5
                                    10
Glu Phe Ile Leu Ile Gly Phe Pro Gly Ile His Glu Trp Gln His Trp
                                25
           20
Leu Ser Leu Pro Leu Ala Leu Gly Ala Asn Leu Leu Ile Ile Ile Thr
                            40
                                                45
Ile Gln His Glu Thr Met Leu His Glu Pro Met Tyr His Leu Leu Gly
                                            60
                       55
Ile Leu Ala Val Val Asp Ile Gly Leu Ala Thr Thr Ile Met Pro Lys
                                        75
                   70
Ile Leu Ala Ile Phe Trp Phe Asp Ala Lys Ala Ile Ser Leu Pro Glu
                                   90
Cys Phe Ala Gln Ile Tyr Ala Ile His Ser Phe Met Cys Met Glu Ser
                               105
                                                    110
           100
Gly Ile Phe Leu Cys Met Ala Val Asp Arg Tyr Met Ala Ile Cys Tyr
                           120
                                                125
Pro Leu Gln Tyr Thr Ser Ile Val Thr Glu Ala Phe Val Ile Lys Ala
                        135
                                            140
Thr Leu Ser Val Val Leu Arg Asn Gly Leu Leu Thr Ile Pro Val Pro
                    150
                                        155
Val Leu Ala Ala Gln Arg His Tyr Cys Ser Arg Asn Glu Ile Asp Gln
                                    170
               165
Cys Leu Cys Ser Asn Leu Gly Val Thr Ser Leu Ala Cys Asp Asp Thr
                                                    190
           180
                                185
Thr Ile Asn Arg Phe Tyr Gln Leu Ala Leu Val Trp Val Val Val Gly
                           200
                                                205
Ser Asp Met Gly Leu Val Phe Ala Ser Tyr Ser Leu Ile Ile His Ser
                                            220
                       215
Val Leu Lys Leu Asn Ser Ala Lys Ala Thr Ser Lys Ala Leu Asn Thr
```

```
230
                                        235
Cys Ser Ser His Leu Ile Leu Ile Leu Phe Phe Tyr Thr Ala Ile Ile
                                    250
                245
Val Val Ser Val Thr Asn Leu Ala Gly Arg Arg Ala Pro Arg Ile Pro
            260
                                265
Val Leu Leu Asn Val Leu His Ile Val Ile Pro Ser Ala Leu Asn Pro
                            280
                                                285
Ile Val Tyr Ala Leu Arg Thr Xaa Glu Leu Arg Ala Gly Phe Gln Lys
                       295
Leu Leu Gly Leu Gly Glu Tyr Val Ser
                    310
<210> 1508
<211> 315
<212> PRT
<213> Unknown (H38g425 protein)
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<223> Synthetic construct
<400> 1508
Met Phe Ser Pro Asn His Thr Ile Val Thr Glu Phe Ile Leu Leu Gly
                                    10
Leu Thr Asp Asp Pro Val Leu Glu Lys Ile Leu Phe Gly Val Phe Leu
                                25
Ala Ile Tyr Leu Ile Thr Leu Ala Gly Asn Leu Cys Met Ile Leu Leu
        35
                            40
Ile Arg Thr Asn Ser His Leu Gln Thr Pro Met Tyr Phe Phe Leu Gly
                        55
                                            60
His Leu Ser Phe Val Asp Ile Cys Tyr Ser Ser Asn Val Thr Pro Asn
                    70
                                        75
Met Leu His Asn Phe Leu Ser Glu Gln Lys Thr Ile Ser Tyr Ala Gly
                                    90
Cys Phe Thr Gln Cys Leu Leu Phe Ile Ala Leu Val Ile Thr Glu Phe
                                105
Tyr Ile Leu Ala Ser Met Ala Leu Asp Arg Tyr Val Ala Ile Cys Ser
                            120
                                                125
Pro Leu His Tyr Ser Ser Arg Met Ser Lys Asn Ile Cys Val Cys Leu
                                            140
                       135
Val Thr Ile Pro Tyr Met Tyr Gly Phe Leu Ser Gly Phe Ser Gln Ser
                   150
                                        155
Leu Leu Thr Phe His Leu Ser Phe Cys Gly Ser Leu Glu Ile Asn His
               165
                                    170
Phe Tyr Cys Ala Asp Pro Pro Leu Ile Met Leu Ala Cys Ser Asp Thr
                                185
Arg Val Lys Lys Met Ala Met Phe Val Val Ala Gly Phe Asn Leu Ser
                            200
                                                205
Ser Ser Leu Phe Ile Ile Leu Leu Ser Tyr Leu Phe Ile Phe Ala Ala
                        215
                                            220
Ile Phe Arg Ile Arg Ser Ala Glu Gly Arg His Lys Ala Phe Ser Thr
                    230
                                        235
Cys Ala Ser His Leu Thr Ile Val Thr Leu Phe Tyr Gly Thr Leu Phe
               245
                                    250
Cys Met Tyr Val. Arg Pro Pro Ser Glu Lys Ser Val Glu Glu Ser Lys
                                265
Ile Thr Ala Val Phe Tyr Thr Phe Leu Ser Pro Met Leu Asn Pro Leu
                            280
                                                285
Ile Tyr Ser Leu Arg Asn Thr Asp Val Ile Leu Ala Met Gln Gln Met
                       295
Ile Arg Gly Lys Ser Phe His Lys Ile Ala Val
```

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<210> 1509
<211> 257
<212> PRT
<213> Unknown (H38g426 protein)
<223> Synthetic construct
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Met Phe Leu Leu Ala Ile Leu Ala Ala Thr Asp Leu Gly Leu Ala
                             10
Thr Ser Ile Ala Pro Gly Leu Leu Ala Val Leu Trp Leu Gly Pro Arg
                                25
Ser Val Pro Tyr Ala Val Cys Leu Val Gln Met Phe Phe Val His Ala
Leu Thr Ala Met Glu Ser Gly Val Leu Leu Ala Met Ala Cys Asp Arg
                       55
Ala Ala Ala Ile Gly Arg Pro Leu His Tyr Pro Val Leu Val Thr Lys
                   70
                                       75
Ala Cys Val Gly Tyr Ala Ala Leu Ala Leu Ala Leu Lys Ala Val Ala
                85
Ile Val Val Pro Phe Pro Leu Leu Val Ala Lys Phe Glu His Phe Gln
                                105
                                                   110
Ala Lys Thr Ile Gly His Thr Tyr Cys Ala His Met Ala Val Val Glu
                                                125
                           120
        115
Leu Val Val Gly Asn Thr Gln Ala Thr Asn Leu Tyr Gly Leu Ala Leu
                       135
Ser Leu Ala Ile Ser Gly Met Asp Ile Leu Gly Ile Thr Gly Ser Tyr
                   150
                                       155
Gly Leu Ile Ala His Ala Val Leu Gln Leu Pro Thr Arg Glu Ala His
                                   170
               165
Ala Lys Ala Phe Gly Thr Cys Ser Ser His Ile Cys Val Ile Leu Ala
                                                   190
           180
                                185
Phe Tyr Ile Pro Gly Leu Phe Ser Tyr Leu Ala His Arg Phe Gly His
                                               205
       195
                           200
His Thr Val Pro Lys Pro Val His Ile Leu Leu Ser Asn Ile Tyr Leu
                                           220
                      215
Leu Leu Pro Pro Ala Leu Asn Pro Leu Ile Tyr Gly Ala Arg Thr Lys
                  230
                                       235
Gln Ile Arg Asp Arg Leu Leu Glu Thr Phe Thr Phe Arg Lys Ser Pro
                                   250
               245
Leu
<210> 1510
<211> 358
<212> PRT
<213> Unknown (H38g427 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(358)
<223> Xaa = Any Amino Acid
<400> 1510
Val Ser Met Ser Phe Leu Ile Arg Ser Asp Ser Thr Leu His Thr Pro
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10

Met Cys Leu Phe Leu Ser His Leu Ser Phe Val Asp Leu Tyr Tyr Ala

5

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20
                               25
Thr Asn Ala Thr Pro Pro Met Leu Val Asn Phe Val Phe Ser Lys Arg
                           40
Lys Thr Val Ser Phe Ile Gly Cys Phe Ile Gln Phe His Leu Phe Ile
                       55
Ala Leu Val Ile Thr Asp Tyr His Met Leu Thr Val Met Val Tyr Asp
                                       75
                   70
His Tyr Met Ala Ile Cys Lys Pro Leu Leu Tyr Gly Ser Lys Met Ser
                                   90
              85
Arg Cys Val Cys Leu Cys Leu Thr Ala Ala Pro Tyr Ile Tyr Gly Ser
                                                   110
                               105
           100
Ala Asn Gly Leu Val Gln Val Ile Leu Met Leu Cys Leu Phe Phe Cys
                           120
        115
Glu Pro Asn Glu Ile Asn His Phe Phe Phe Phe Gly Glu Asn Ala Leu
                                           140
                       135
Tyr Ala His Leu Ile Pro Leu Xaa Ile Phe Glu Trp Thr Val Gly Glu
                                       155
                   150
Glu Gly Arg Asn Asn Ile Asn Gly Glu Asn Thr Thr Gln Lys Val Tyr
                                    170
Thr Met Gly Glu Arg Asn Leu Leu Ile Gln Val Ser Ile Phe Leu Leu
                               185
Trp His Ile Arg Ser Xaa Leu Phe Ser Gln Tyr Glu Ala Ser Pro Arg
                                               205
                           200
Ala Asp Ser Asp Val Lys Leu Glu Ile Asn His Phe Tyr Tyr Ala Glu
                                           220
                       215
Pro Pro Leu Leu Val Leu Ala Cys Leu Asp Thr Tyr Val Lys Glu Thr
                   230
                                       235
Ala Met Phe Met Val Ala Gly Ser Asn Leu Ile Cys Pro Leu Thr Ile
                                   250
                245
Ile Phe Ile Ser Tyr Thr Phe Ile Phe Thr Asp Ile Leu His Ile Cys
                               265
                                                   270
Thr Ala Glu Gly Arg Tyr Asn Ala Phe Ser Thr Cys Gly Ser Leu Val
                                               285
                           280
Thr Ala Val Thr Val Phe Gln Gly Thr Leu Phe His Met Cys Leu Arg
                                           300
                      295
Pro Pro Ser Glu Ala Ser Val Glu Gln Gly Lys Ile Val Ala Ala Phe
                  310
                                       315
Tyr Ile Phe Val Ser Pro Thr Leu Asn Pro Leu Ile Tyr Arg Leu Arg
               325
                                   330
Asn Lys Asn Val Lys Arg Thr Ile Arg Glu Val Ile Gln Lys Lys Leu
                               345
            340
Phe Ala Lys Xaa Gly Arg
       355
<210> 1511
<211> 313
<212> PRT
<213> Unknown (H38g428 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(313)
<223> Xaa = Any Amino Acid
<400> 1511
Met Phe Gly Ala Asn Leu Thr Thr Phe His Pro Thr Leu Phe Ile Leu
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10

Leu Gly Ile Pro Gly Leu Glu Gln Tyr His Ile Trp Leu Ser Ile Pro 25

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```
Phe Tyr Leu Met Tyr Ile Thr Ala Val Leu Gly Asn Gly Ala Leu Ile
                           40
                                               45
Leu Val Val Leu Ser Glu His Thr Leu His Val Phe Leu Ser Met Leu
                       55
                                           60
Ala Gly Thr Asp Ile Leu Leu Ser Thr Thr Thr Val Pro Lys Ala Leu
                                        75
                   70
Ala Ile Phe Trp Val His Ala Gly Glu Ile Ala Phe Asp Ala Cys Ile
               85
Thr Gln Met Phe Phe Ile His Val Ala Phe Val Ala Glu Ser Gly Ile
           100
                               105
Leu Leu Ala Met Ala Phe Asp Ser Tyr Val Ala Ile Cys Thr Pro Leu
                                               125
                           120
Arg Tyr Thr Thr Ile Leu Thr Ser Met Val Asn Gly Lys Met Thr Leu
                       135
                                           140
   130
Thr Ile Trp Gly Gln Ser Ile Gly Thr Ile Phe Pro Val Ile Phe Leu
                                       155
                   150
Leu Lys Arg Leu Pro Tyr Cys Gln Thr Asn Ile Ile Pro His Ser Tyr
               165
                                   170
Cys Glu His Ile Gly Val Ala Gln Leu Ala Cys Ala Asp Ile Thr Val
                                                   190
                               185
           180
Asn Ile Trp Tyr Gly Phe Ser Val Pro Met Ala Ser Val Leu Val Asp
                          200
       195
Val Ala Phe Ile Gly Phe Ser Tyr Thr Leu Ile Leu Gln Ala Val Phe
                                            220
                       215
Arg Leu Pro Ser Gln Glu Ser Gln His Lys Ala Leu Asn Thr Cys Gly
                                       235
                   230
Ser His Ile Gly Val Val Leu Leu Phe Phe Ile Pro Ser Phe Phe Thr
                                   250
               245
Phe Leu Thr His Arg Phe Gly Lys Asn Ile Pro His His Val His Ile
                               265
Leu Leu Ala Asn Leu Tyr Leu Leu Val Pro Pro Met Leu Asn Pro Ile
                          280
                                              285
      275
Ile Tyr Gly Glu Lys Thr Lys Gln Ile Arg Asp Ser Met Ala His Met
                                           300
                      295
Leu Ser Val Val Gly Lys Ser Xaa Asp
                   310
<210> 1512.
<211> 314
<212> PRT
<213> Unknown (H38g429 protein)
<220>
<223> Synthetic construct
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Met Lys Met Lys Ile Asp Pro Lys Cys Asn Gly Thr Glu Val Thr Glu
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Phe Ile Leu Leu Gly Leu Thr Ser Gln Pro Glu Leu Gln Pro Met Leu
                               25
           20
Phe Val Val Phe Leu Leu Ile Tyr Leu Ile Thr Leu Thr Gly Lys Phe
                           40
       35
Gly Met Ile Phe Leu Ile Arg Phe Thr Pro Gln Leu Gln Thr His Met
                       55
                                           60
Tyr Phe Phe Leu Thr His Leu Ala Cys Val Asp Ile Phe Tyr Ser Thr
                                       75
                   70
Asn Val Ser Pro Gln Met Leu Val Asn Phe Leu Ser Glu Lys Lys Thr
```

90

Ile Ser Tyr Ala Gly Cys Leu Ala Gln Cys Phe Val Phe Val Thr Leu 105

Leu Leu Thr Glu Tyr Tyr Met Leu Gly Ala Met Ala Tyr Asp Cys Tyr

85

100

```
120
                                                125
        115
Met Ala Ile Cys Asn Pro Leu His Tyr Ser Ser Lys Met Ser Arg Ala
                      135
                                          140
Val Cys Ile Cys Leu Val Thr Phe Pro Tyr Phe Trp Gly Ser Met Val
                   150
                                       155
Gly Thr Met Gln Val Ile Leu Thr Ser Arg Leu Ser Phe Phe Gly Pro
                                   170
               165
Asn Thr Ile Asn His Phe Tyr Cys Thr Asp Pro Pro Leu Leu Met Leu
                               185
                                                    190
            180
Thr Ser Ser Asp Thr Tyr Ile Lys Gln Thr Ala Leu Phe Val Ser Ala
                           200
Gly Ile Asn Leu Thr Val Ser Leu Leu Ile Ile Leu Ile Ser Tyr Ile
                        215
                                            220
Phe Ile Phe Ile Thr Ile Met Arg Ile Arg Ser Ser Glu Gly Gln Leu
                    230
                                        235
Lys Ala Phe Ser Thr Cys Gly Ser His Leu Thr Ala Val Thr Met Phe
                                    250
Tyr Gly Ser Leu Phe Cys Met Tyr Leu Arg Pro Thr Asn Glu Leu Ser
                                265
                                                    270
Val Glu Gln Gly Lys Met Gly Val Val Phe Cys Ile Phe Val Ser Pro
                            280
                                                285
Met Leu Asn Pro Phe Ile Tyr Arg Leu Arg Asn Lys Asp Val Lys Gln
                        295
                                            300
Ala Leu Lys Arg Val Phe Met Arg Asn Leu
                    310
<210> 1513
<211> 320
<212> PRT
<213> Unknown (H38g430 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(320)
<223> Xaa = Any Amino Acid
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Met Ser Leu Leu Phe Xaa Asp Xaa Asp Met Arg Asn Phe Thr Pro Leu
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Ser Gly Phe Ile Ile Leu Gly Phe Thr Asp His Pro Glu Leu Gln Cys
                                25
Leu Leu Phe Val Leu Phe Leu Leu Ile Tyr Met Phe Thr Val Val Gly
                                                45
                            40
Asn Leu Gly Met Ile Leu Leu Ile Lys Ile Asp Ser His Leu His Thr
                                            60
                       55
Pro Met Tyr Phe Phe Leu Ser Asn Leu Cys Leu Val Asp Phe Cys Tyr
                                        75
Ser Ser Val Ile Ala Pro Asn Met Leu Ile Asn Phe Trp Val Glu Asn
                                   90
Pro Val Ile Ser Phe Asn Glu Cys Ala Thr Gln Phe Phe Phe Gly
                               105
Ser Phe Ala Gly Ile Glu Gly Phe Leu Leu Ala Val Met Ala Tyr Asp
                           120
                                                125
Cys Tyr Val Ala Ile Cys Lys Pro Leu Leu Tyr Thr Val Leu Met Ser
                       135
                                           140
Pro His Leu Ser Ala Leu Leu Val Leu Ala Thr Tyr Leu Leu Gly Phe
                   150
                                       155
Val Asn Ala Ala Ile His Thr Gly Phe Thr Phe Gln Leu Ser Phe Cys
                                    170
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His Ser Asn Ile Ile Asn Tyr Phe Phe Cys Asp Ile Pro Pro Leu Leu
                                185
                                                    190
Lys Leu Cys Ser Asp Thr His Ile Asn Glu Val Val Ile Phe Ala Phe
                                                205
        195
                            200
Ala Ser Phe Asn Glu Leu Ser Cys Leu Leu Leu Ile Leu Val Ser Cys
                                            220
                        215
Leu Tyr Ile Leu Ala Ala Ile Leu Lys Ile His Ser Ala Glu Gly Arg
                    230
                                        235
His Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ala Val Val Thr Ile
                                   250
                245
Phe Phe Gly Thr Ile Leu Phe Met Tyr Leu Leu Arg Pro Ser Ser Ser
                                                   270
            260
                               265
Tyr Ser Met Asp Gln Asp Lys Val Val Ser Val Phe Tyr Thr Val Val
                          280
                                               285
Ile Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Glu Val
                       295
                                            300
Lys Ala Ser Leu Ser Lys Met Phe Lys Thr Val Ser Tyr Ile Ser Thr
                                       315
                    310
<210> 1514
<211>, 299
<212> PRT
<213> Unknown (H38g431 protein)
<223> Synthetic construct
<400> 1514
Met Gly Leu Pro Gly Ile His Glu Trp Gln His Trp Leu Ser Leu Pro
                                   10
Leu Thr Leu Leu Tyr Leu Leu Ala Leu Gly Ala Asn Leu Leu Ile Ile
                               25
Ile Thr Ile Gln His Glu Thr Val Leu His Glu Pro Met Tyr His Leu
                            40
Leu Gly Ile Leu Ala Val Val Asp Ile Gly Leu Ala Thr Thr Ile Met
                       55
                                            60
Pro Lys Ile Leu Ala Ile Phe Trp Phe Asp Ala Lys Ala Ile Ser Leu
                   70
                                       75
Pro Met Cys Phe Ala Gln Ile Tyr Ala Ile His Cys Phe Phe Cys Ile
                                    90
Glu Ser Gly Ile Phe Leu Cys Met Ala Val Asp Arg Tyr Ile Ala Ile
           100
                               105
Cys Arg Pro Leu Gln Tyr Pro Ser Ile Val Thr Lys Ala Phe Val Phe
                           120
       115
Lys Ala Thr Gly Phe Ile Met Leu Arg Asn Gly Leu Leu Thr Ile Pro
                       135
                                           140
Val Pro Ile Leu Ala Ala Gln Arg His Tyr Cys Ser Arg Asn Glu Ile
                   150
                                       155
Glu His Cys Leu Cys Ser Asn Leu Gly Val Ile Ser Leu Ala Cys Asp
                                                       175
                                   170
               165
Asp Ile Thr Val Asn Lys Phe Tyr Gln Leu Met Leu Ala Trp Val Leu
                                                   190
                               185
           180
Val Gly Ser Asp Met Ala Leu Val Phe Ser Ser Tyr Ala Val Ile Leu
                           200
                                                205
His Ser Val Leu Arg Leu Asn Ser Ala Glu Ala Met Ser Lys Ala Leu
    210
                        215
                                            220
Ser Thr Cys Ser Ser His Leu Ile Leu Ile Leu Phe His Thr Gly Ile
                   230
                                       235
Ile Val Leu Ser Val Thr His Leu Ala Glu Lys Lys Ile Pro Leu Ile
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250

Pro Val Phe Leu Asn Val Leu His Asn Val Ile Pro Pro Ala Leu Asn

265

260

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Pro Leu Ala Cys Ala Leu Arg Met His Lys Leu Arg Leu Gly Phe Gln
                          280
Arg Leu Gly Leu Gly Gln Asp Val Ser Lys
                        295
<210> 1515
<211> 317
<212> PRT
<213> Unknown (H38g432 protein)
<220>
<223> Synthetic construct
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Met Met Arg Leu Met Lys Glu Val Arg Gly Arg Asn Gln Thr Glu Val
                                    10
Thr Glu Phe Leu Leu Gly Leu Ser Asp Asn Pro Asp Leu Gln Gly
         20
                               25
Val Leu Phe Ala Leu Phe Leu Leu Ile Tyr Met Ala Asn Met Val Gly
                            40
Asn Leu Gly Met Ile Val Leu Ile Lys Ile Asp Leu Cys Leu His Thr
                       55
                                            60
Pro Met Tyr Phe Phe Leu Ser Ser Leu Ser Phe Val Asp Ala Ser Tyr
                                        75
Ser Ser Ser Val Thr Pro Lys Met Leu Val Asn Leu Met Ala Glu Asn
                                    90
Lys Ala Ile Ser Phe His Gly Cys Ala Ala Gln Phe Tyr Phe Phe Gly
                                105
Ser Phe Leu Gly Thr Glu Cys Phe Leu Leu Ala Met Met Ala Tyr Asp
                            120
                                                125
Arg Tyr Ala Ala Ile Trp Asn Pro Leu Leu Tyr Pro Val Leu Val Ser
                       135
                                           140
   130
Gly Arg Ile Cys Phe Leu Leu Ile Ala Thr Ser Phe Leu Ala Gly Cys
                   150
                                        155
Gly Asn Ala Ala Ile His Thr Gly Met Thr Phe Arg Leu Ser Phe Cys
                                    170
Gly Ser Asn Arg Ile Asn His Phe Tyr Cys Asp Thr Pro Pro Leu Leu
           180
                               185
Lys Leu Ser Cys Ser Asp Thr His Phe Asn Gly Ile Val Ile Met Ala
                           200
                                                205
Phe Ser Ser Phe Ile Val Ile Ser Cys Val Met Ile Val Leu Ile Ser
                       215
                                           220
Tyr Leu Cys Ile Phe Ile Ala Val Leu Lys Met Pro Ser Leu Glu Gly
                   230
                                        235
Arg His Lys Ala Phe Ser Thr Cys Ala Ser Tyr Leu Met Ala Val Thr
                245
                                    250
Ile Phe Phe Gly Thr Ile Leu Phe Met Tyr Leu Arg Pro Thr Ser Ser
                                265
                                                    270
Tyr Ser Met Glu Gln Asp Lys Val Val Ser Val Phe Tyr Thr Val Ile
                            280
                                                285
Ile Pro Val Leu Asn Pro Leu Ile Tyr Ser Leu Lys Asn Lys Asp Val
                       295
                                           300
Lys Lys Ala Leu Lys Lys Ile Leu Trp Lys His Ile Leu
                   310
<210> 1516
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Cys Asn Asp Ser Cys Leu His Thr Pro Met Tyr Phe Val Ala Gly Asn

60

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55
Leu Ser Phe Leu Asp Leu Trp Tyr Ser Ser Val Tyr Thr Pro Lys Ile
                   70
                                        75
Leu Val Thr Cys Ile Ser Glu Asp Lys Ser Ile Ser Phe Ala Gly Cys
               85
                                    90
Leu Cys Gln Phe Phe Ser Ala Gly Leu Ala Tyr Ser Glu Cys Tyr
            100
                                105
Leu Leu Ala Ala Val Ala Tyr Asp Arg Tyr Val Ala Ile Ser Lys Pro
                            120
                                                125
Leu Leu Tyr Ala Gln Ala Met Ser Ile Lys Leu Cys Ala Leu Leu Val
                        135
                                            140
Ala Val Ser Tyr Cys Gly Gly Phe Ile Asn Ser Ser Ile Ile Thr Lys
                    150
                                        155
Lys Thr Phe Ser Phe Asn Phe Cys Arg Glu Asn Ile Ile Asp Asp Phe
                165
                                    170
Phe Cys Asp Leu Leu Pro Leu Val Glu Leu Ala Cys Gly Glu Lys Gly
            180
                                185
Gly Tyr Lys Ile Met Met Tyr Phe Leu Leu Ala Ser Asn Val Ile Cys
        195
                            200
Pro Ala Val Leu Ile Leu Ala Ser Tyr Leu Phe Ile Ile Thr Ser Val
                        215
                                            220
Leu Arg Ile Ser Ser Ser Lys Gly Tyr Leu Lys Ala Phe Ser Thr Cys
                    230
                                        235
Ser Ser His Leu Thr Ser Val Thr Leu Tyr Tyr Gly Ser Ile Leu Tyr
                245
                                    250
Ile Tyr Ala Leu Pro Arg Ser Ser Tyr Ser Phe Asp Met Asp Lys Ile
                                265
                                                    270
Val Ser Thr Phe Tyr Thr Val Val Phe Pro Met Leu Asn Leu Met Ile
                            280
                                                285
Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Lys Lys Leu Leu
                        295
Pro
305
<210> 1518
<211> 314
<212> PRT
<213> Unknown (H38g435 protein)
<220>
<223> Synthetic construct
<400> 1518
Met Leu Pro Ser Asn Ile Thr Ser Thr His Pro Ala Val Phe Leu Leu
                                    10
Val Gly Ile Pro Gly Leu Glu His Leu His Ala Trp Ile Ser Ile Pro
                                25
Phe Cys Phe Ala Tyr Thr Leu Ala Leu Leu Gly Asn Cys Thr Leu Leu
                            40
Phe Ile Ile Arg Ala Asp Ala Ala Leu His Glu Pro Met Tyr Leu Phe
                        55
Leu Ala Met Leu Ala Thr Ile Asp Leu Val Leu Ser Ser Thr Thr Leu
Pro Lys Met Leu Ala Ile Phe Trp Phe Arg Asp Gln Glu Ile Asn Phe
                                   90
Phe Ala Cys Leu Val Gln Met Phe Phe Leu His Ser Phe Ser Ile Met
                                105
Glu Ser Ala Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
                            120
                                               125
Cys Lys Pro Leu His Tyr Thr Thr Val Leu Thr Gly Ser Leu Ile Thr
                       135
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Lys Ile Gly Met Ala Ala Val Ala Arg Ala Val Thr Leu Met Thr Pro
                                       155
                   150
Leu Pro Phe Leu Leu Arg Arg Phe His Tyr Cys Arg Gly Pro Val Ile
               165
                                    170
Ala His Cys Tyr Cys Glu His Met Ala Val Val Arg Leu Ala Cys Gly
                               185
            180
Asp Thr Ser Phe Asn Asn Ile Tyr Gly Ile Ala Val Ala Met Phe Ser
                                               205
                           200
Val Val Leu Asp Leu Leu Phe Val Ile Leu Ser Tyr Val Phe Ile Leu
                                            220
                       215
Gln Ala Val Leu Gln Leu Ala Ser Gln Glu Ala Arg Tyr Lys Ala Phe
                  230
                                       235
Gly Thr Cys Val Ser His Ile Gly Ala Ile Leu Ser Thr Tyr Thr Pro
                                    250
               245
Val Val Ile Ser Ser Val Met His Arg Val Ala Arg His Ala Ala Pro
            260
                               265
Arg Val His Ile Leu Leu Ala Ile Phe Tyr Leu Leu Phe Pro Pro Met
       275
                           280
                                               285
Val Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Tyr
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Val Leu Ser Leu Phe Gln Arg Lys Asn Met
                   310
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<210> 1519

<211> 312

<212> PRT

<213> Unknown (H38g436 protein)

<220>

<223> Synthetic construct

<400> 1519

Met Leu Lys Lys Asn His Thr Ala Val Thr Glu Phe Val Leu Leu Gly 10 Leu Thr Asp Arg Ala Glu Leu Gln Ser Leu Leu Phe Val Val Phe Leu 20 25 Val Ile Tyr Leu Ile Thr Val Ile Gly Asn Val Ser Met Ile Leu Leu Je: 45 40 Ile Arg Ser Asp Ser Thr Leu His Thr Pro Met Tyr Phe Phe Leu Ser 55 60 His Leu Ser Phe Val Asp Leu Cys Tyr Thr Thr Asn Val Thr Pro Gln 70 75 Met Leu Val Asn Phe Leu Ser Lys Arg Lys Thr Ile Ser Phe Ile Gly 90 85 Cys Phe Ile Gln Phe His Phe Phe Ile Ala Leu Val Ile Thr Asp Tyr 100 105 Tyr Met Leu Thr Val Met Ala Tyr Asp Arg Tyr Met Ala Ile Cys Lys 120 125 Pro Leu Leu Tyr Gly Ser Lys Met Thr Arg Cys Val Cys Leu Cys Leu 140 135 Ala Ala Pro Tyr Ile Tyr Gly Phe Ala Asn Gly Leu Ser Gln Thr 150 155 Thr Leu Met Leu Arg Leu Ser Phe Cys Gly Pro Asn Asp Ile Asn His 170 Phe Tyr Cys Ala Asp Pro Pro Leu Leu Val Leu Ala Cys Ser Asp Thr 185 190 180 Tyr Val Lys Glu Thr Ala Met Leu Val Val Ala Gly Ser Asn Leu Ile 205 200 Cys Ser Leu Thr Val Ile Leu Ile Ser Tyr Thr Phe Ile Phe Thr Ala 215 220 Ile Leu Arg Ile His Thr Ala Glu Gly Arg Arg Lys Ala Phe Ser Thr

```
230
                                         235
 Cys Gly Ser His Val Thr Ala Val Thr Val Phe Tyr Gly Thr Leu Phe
                 245
                                     250
 Cys Met Tyr Leu Arg Pro Pro Ser Glu Thr Ser Ile Gln Gln Gly Lys
             260
                                 265
 Ile Val Ala Val Phe Tyr Ile Phe Val Ser Pro Met Leu Asn Pro Leu
                             280
                                                 285
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Arg Ser Ile Arg Lys Val
                         295
                                             300
 Ile Gln Lys Lys Leu Phe Ala Lys
<210> 1520
<211> 314
<212> PRT
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<220>
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Met Ser Ala Ser Asn Ile Thr Leu Thr His Pro Thr Ala Phe Leu Leu
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Val Gly Ile Pro Gly Leu Glu His Leu His Ile Trp Ile Ser Ile Pro
            20
                                25
Phe Cys Leu Ala Tyr Thr Leu Ala Leu Leu Gly Asn Cys Thr Leu Leu
                            40
Leu Ile Ile Gln Ala Asp Ala Ala Leu His Glu Pro Met Tyr Leu Phe
                        55
Leu Ala Met Leu Ala Ala Ile Asp Leu Val Leu Ser Ser Ser Ala Leu
                    70
Pro Lys Met Leu Ala Ile Phe Trp Phe Arg Asp Arg Glu Ile Asn Phe
                85
                                    90
Phe Ala Cys Leu Ala Gln Met Phe Phe Leu His Ser Phe Ser Ile Met
                                105
                                                    110
Glu Ser Ala Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile
                            120
                                                125
Cys Lys Pro Leu His Tyr Thr Lys Val Leu Thr Gly Ser Leu Ile Thr
                        135
                                            140
Lys Ile Gly Met Ala Ala Val Ala Arg Ala Val Thr Leu Met Thr Pro
                    150
                                        155
Leu Pro Phe Leu Leu Arg Cys Phe His Tyr Cys Arg Gly Pro Val Ile
                                    170
Ala His Cys Tyr Cys Glu His Met Ala Val Val Arg Leu Ala Cys Gly
                                185
                                                    190
Asp Thr Ser Phe Asn Asn Ile Tyr Gly Ile Ala Val Ala Met Phe Ile
                            200
                                                205
Val Val Leu Asp Leu Leu Leu Val Ile Leu Ser Tyr Ile Phe Ile Leu
                       215
                                            220
Gln Ala Val Leu Leu Ala Ser Gln Glu Ala Arg Tyr Lys Ala Phe
                    230
                                        235
Gly Thr Cys Val Ser His Ile Gly Ala Ile Leu Ala Phe Tyr Thr Thr
                245
                                    250
Val Val Ile Ser Ser Val Met His Arg Val Ala Arg His Ala Ala Pro
            260
                                265
His Val His Ile Leu Leu Ala Asn Phe Tyr Leu Leu Phe Pro Pro Met
       275
                            280
                                                285
Val Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Ser
                       295
                                            300
Ile Leu Gly Val Phe Pro Arg Lys Asp Met
                    310
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<210> 1521
 <211> 313
 <212> PRT
 <213> Unknown (H38g438 protein)
 <223> Synthetic construct
 <400> 1521
 Met Ser Ala Ser Ser Ile Thr Ser Thr His Pro Thr Ser Phe Leu Leu
                                 10
Met Gly Ile Pro Gly Leu Glu His Leu His Ile Trp Ile Ser Ile Pro
 Phe Ser Ala Tyr Thr Leu Ala Leu Leu Gly Asn Cys Thr Leu Leu Leu
 Ile Ile Gln Ala Asp Ala Ala Leu His Glu Pro Ile Tyr Leu Phe Leu
                       55
Ala Met Leu Ala Ala Ile Asp Leu Val Leu Ser Ser Ala Leu Pro
                   70
                                       75
Lys Met Leu Ala Ile Phe Trp Phe Arg Asp Arg Glu Ile Asn Phe Phe
                85
                                   90
Ala Cys Leu Val Gln Met Phe Phe Leu His Ser Phe Ser Ile Met Glu
                                105
Ser Ala Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys
                            120
                                                125
Lys Pro Leu His Tyr Thr Thr Val Leu Thr Gly Ser Leu Ile Thr Lys
                        135
                                            140
Ile Gly Met Ala Ala Val Ala Arg Ala Val Thr Leu Met Thr Pro Leu
                   150
                                        155
Pro Phe Leu Leu Arg Cys Phe His Tyr Cys Arg Gly Pro Val Ile Ala
                                    170
Arg Cys Tyr Cys Glu His Met Ala Val Val Arg Leu Ala Cys Gly Asn
           180
                               185
Thr Ser Phe Asn Asn Ile Tyr Gly Ile Ala Val Ala Met Phe Ile Gly
                           200
                                               205
Val Leu Asp Leu Phe Phe Ile Ile Leu Ser Tyr Ile Phe Ile Leu Gln
                       215
                                           220
Ala Val Leu Gln Leu Ser Ser Gln Glu Ala Arg Tyr Lys Ala Phe Gly
                    230
                                        235
Thr Cys Val Ser His Ile Gly Ala Ile Leu Ala Phe Tyr Thr Pro Ser
                245
                                    250
Val Ile Ser Ser Val Met His Arg Val Ala Arg Cys Ala Ala Pro His
           260
                               265
Val His Ile Leu Leu Ala Asn Phe Tyr Leu Leu Phe Pro Pro Met Val
                           280
                                               285
Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Gln Ile Arg Glu Ser Val
                      295
Leu Gly Val Phe Pro Arg Lys Asp Val
                   310
<210> 1522
<211> 318
<212> PRT
<213> Unknown (H38g439 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1) ... (318)
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<223> Xaa = Any Amino Acid

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<400> 1522
Met Thr Thr His Asn Ser Thr Gly Ser Ser His Ser Leu Phe Ile Leu
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Leu Ser Ile Pro Gly Leu Glu Asp Gln His Thr Trp Met Ser Leu Pro
                                25
Phe Phe Ile Ser Tyr Leu Val Ala Phe Leu Gly Asn Ser Leu Ile Ile
                                                 45
Phe Ile Ile Ile Thr Glu Cys Ser Leu His Glu Pro Met Tyr Leu Phe
                        55
Leu Cys Met Leu Ala Val Ala Asp Leu Ile Leu Ser Thr Thr Thr Val
                    70
                                        75
Pro Lys Ala Leu Ala Ile Phe Trp Phe Tyr Ala Gly Ala Ile Ser Leu
                85
                                    90
Gly Gly Cys Val Thr Gln Ile Phe Phe Ile His Ala Thr Phe Ile Glu
            100
                                105
Glu Ser Gly Ile Leu Leu Ala Met Ala Leu Asp Arg Tyr Val Ala Ile
                            120
                                                 125
Cys Asp Pro Leu His Tyr Thr Thr Val Leu Ser Arg Ala Lys Ile Thr
                        135
                                            140
Lys Ile Gly Leu Ala Val Val Leu Arg Ser Phe Cys Val Ile Met Pro
                    150
                                        155
Asp Val Phe Leu Val Lys Arg Leu Pro Phe Cys His Ser Asn Leu Leu
               165
                                    170
Pro His Thr Tyr Cys Glu His Met Ala Val Ala Lys Phe Ala Cys Ala
            180
                                185
Asp Ile His Val Asn Val Trp Tyr Gly Leu Ser Val Leu Leu Tyr Thr
        195
                           200
Val Val Leu Asp Ala Leu Leu Ile Leu Val Ser Xaa Ser Phe Ile Leu
                       215
                                            220
Tyr Thr Gly Phe His Leu Pro Ser Pro Gly Ala Arg Gln Lys Ala Leu
                    230
                                        235
Gly Thr Cys Gly Ser His Leu Arg Val Ile Ser Met Phe Tyr Leu Pro
                245
                                    250
Gly Ile Phe Thr Ile Ile Thr Gln Arg Phe Gly His His Val Pro Leu
            260
                                265
His Thr His Ile Leu Leu Gly Asn Val Trp Val Leu Ala Pro Pro Met
                            280
                                                285
Leu Asn Pro Ile Ile Tyr Gly Ile Asn Thr Arg Gln Ile Gln Glu Cys
                       295
                                            300
Val Leu Ser Leu Leu Ser Ser Gln Arg Lys Xaa Cys Xaa Ile
                    310
```

<210> 1523

<211> 313

<212> PRT

<213> Unknown (H38g440 protein)

<220>

<223> Synthetic construct

<400> 1523

 Met
 Asn
 Trp
 Val
 Asn
 Asp
 Ser
 Ile
 Ile
 Glu
 Phe
 Ile
 Ile
 Leu
 Phe
 Ile
 Leu
 Phe
 Ile
 Ile
 Leu
 Val
 Phe
 Leu
 Leu
 Val
 Phe
 Leu
 Val
 Phe
 Leu
 Val
 Phe
 Leu
 Val
 Phe
 Leu
 Val
 Val
 Phe
 Leu
 Val
 V

```
Asn Leu Ser Leu Leu Asp Leu Cys Tyr Thr Thr Cys Thr Val Pro Gln
Met Leu Val Asn Leu Cys Ser Ile Arg Lys Val Ile Ser Tyr Arg Gly
                85
                                    90
Cys Val Ala Gln Leu Phe Ile Phe Leu Ala Leu Gly Ala Thr Glu Tyr
                                105
Leu Leu Leu Ala Val Met Ser Phe Asp Arg Phe Val Ala Ile Cys Arg
                                                125
                            120
Pro Leu His Tyr Ser Val Ile Met His Gln Arg Leu Cys Leu Gln Leu
                                            140
                        135
Ala Ala Ala Ser Trp Val Thr Gly Phe Ser Asn Ser Val Trp Leu Ser
                                        155
                   150
Thr Leu Thr Leu Gln Leu Pro Leu Cys Asp Pro Tyr Val Ile Asp His
                                    170
               165
Phe Leu Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Val Glu Thr
                                185
                                                    190
           180
Thr Ala Asn Glu Ala Glu Leu Phe Leu Val Ser Glu Leu Phe His Leu
                                                205
                            200
       195
Ile Pro Leu Thr Leu Ile Leu Ile Ser Tyr Ala Phe Ile Val Arg Ala
                       215
                                           220
Val Leu Arg Ile Gln Ser Ala Glu Gly Arg Gln Lys Ala Phe Gly Thr
                                        235
                   230
Cys Gly Ser His Leu Ile Val Val Ser Leu Phe Tyr Ser Thr Ala Val
                                    250
               245
Ser Val Tyr Leu Gln Pro Pro Ser Pro Ser Ser Lys Asp Gln Gly Lys
                                265
           260
Met Val Ser Leu Phe Tyr Gly Ile Ile Ala Pro Met Leu Asn Pro Leu
                                                285
                            280
       275
Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Glu Gly Phe Lys Arg Leu
                                            300
                        295
Val Ala Arg Val Phe Leu Ile Lys Lys
                   310
<210> 1524
<211> 333
<212> PRT
<213> Unknown (H38g441 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(333)
<223> Xaa = Any Amino Acid
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Met Glu Lys Ser Asn Val Ser Ser Val Tyr Gly Phe Ile Leu Val Gly
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                5
Phe Ser Asp Arg Pro Lys Leu Glu Met Val Leu Phe Thr Val Asn Phe
                                                    30
           20
                                25
Ile Leu Tyr Ser Val Ala Val Leu Gly Asn Ser Thr Ile Ile Leu Val
                            40
                                                45
Cys Ile Leu Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ala
                        55
Asn Leu Ser Phe Leu Asp Leu Cys Phe Ser Thr Ser Cys Ile Pro Gln
                                        75
Met Leu Val Asn Leu Trp Gly Pro Asp Lys Thr Ile Ser Cys Ala Gly
                                    90
Cys Val Val Gln Leu Phe Ser Phe Leu Ser Val Arg Gly Ile Glu Cys
                                                    110
                                105
           100
Ile Leu Leu Ala Val Met Ala Tyr Asp Ser Tyr Ala Ala Val Cys Lys
```

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115
                           120
Pro Leu Arg Tyr Leu Val Ile Met His Leu Gln Leu Cys Leu Gly Leu
                      135
                                          140
Met Ala Ala Arp Gly Ser Gly Leu Val Asn Ala Val Val Met Ser
                                      155
                  150
Pro Leu Thr Met Thr Leu Ser Arg Ser Gly Arg Arg Val Asn His
                                  170
               165
Phe Leu Cys Glu Met Pro Ala Leu Ile Lys Met Ala Cys Leu Asp Val
                              185
           180
Arg Ala Val Glu Met Leu Ala Phe Ala Phe Ala Val Leu Ile Val Leu
                          200
Leu Pro Leu Thr Leu Ile Leu Val Ser Tyr Gly Tyr Ile Ala Ala Ala
                                          220
                       215
Val Leu Ser Ile Lys Ser Ala Ala Arg Gln Trp Lys Ala Phe His Thr
                  230
                                      235
Cys Ser Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly Ser Ile Ile
               245
                                  250
Tyr Met Tyr Met Gln Pro Gly Asn Ser Ser Ser Gln Asp Gln Gly Lys
                              265
          260
Phe Leu Thr Leu Phe Tyr Asn Leu Val Thr Pro Met Leu Asn Leu Leu
               280
                                              285
Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Leu Lys Lys Val
                      295
                                          300
Leu Gly Arg Gln Xaa Xaa Thr Gly Glu Ile Xaa Xaa Val Val Lys Ser
                  310
                                      315
Xaa Ala Lys Tyr Leu Phe Gln Tyr Thr Phe Ile Leu Cys
               325
<210> 1525
<211> 317
<212> PRT
<213> Unknown (H38g442 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(317)
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- <223> Xaa = Any Amino Acid
- <400> 1525
- Gln Val Val His Thr Gly Phe Ser Pro Xaa Leu Tyr Val Phe Thr Leu 10
- Leu Gly Asn Gly Ser Ile Leu Gly Leu Ile Trp Leu Asp Ser Arg Leu 20 25
- His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ala Ile Ile Asp Ile 40
- Ser Tyr Ala Ser Asn Asn Val Pro Lys Met Leu Thr Asn Leu Gly Leu 55
- Asn Lys Arg Lys Thr Ile Ser Phe Val Pro Cys Thr Met Gln Thr Phe 70 75
- Leu Tyr Met Ala Phe Ala His Thr Glu Cys Leu Ile Leu Val Met Met 90
- Ser Tyr Asp Arg Tyr Met Ala Val Cys His Pro Leu Gln Tyr Ser Val 100 105
- Ile Met Arg Trp Gly Val Cys Thr Val Leu Ala Val Thr Ser Trp Ala 120 125
- Cys Gly Ser Leu Leu Ala Leu Val His Val Val Leu Ile Leu Arg Leu 135 140
- Pro Phe Cys Gly Pro His Glu Ile Asn His Phe Phe Cys Glu Ile Leu 150 155

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Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp Leu Asn Gln Val Val
                                     170
                165
 Ile Phe Ala Ser Ser Val Phe Ile Leu Val Gly Ala Leu Cys Leu Val
             180
                                 185
 Leu Val Ser Tyr Ser Arg Ile Leu Ala Ala Ile Leu Arg Asn Gln Ser
                             200
 Gly Glu Gly Arg Arg Lys Gly Phe Ser Thr Cys Tyr Ser His Leu Cys
                        215
Met Val Gly Leu Phe Phe Gly Ser Ala Ile Val Thr Tyr Met Ala Pro
                    230
                                         235
Lys Ser Arg His Pro Glu Glu Gln Gln Lys Val Leu Ser Leu Phe Tyr
                245
                                    250
Ser Leu Phe Asn Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn
                                265
Ala Glu Val Lys Gly Ala Leu Arg Ser Ala Leu Arg Lys Glu Arg Leu
                            280
Thr Xaa Asp Ile Ser Lys Gly Thr Met Gly Arg Glu Pro Cys Ser Leu
                        295
Gln Asn Ile Glu Val Gly Phe Phe Phe Cys Leu Leu Leu
                    310
<210> 1526
<211> 239
<212> PRT
<213> Unknown (H38g443 protein)
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<223> Synthetic construct
<221> VARIANT
<222> (1)...(239)
<223> Xaa = Any Amino Acid
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Gln Met Leu Thr Asp Trp Trp Gly Pro Asn Arg Thr Thr Ser Tyr Val
                                    10
Asn Cys Thr Ile Gln Phe Leu Val Ser Leu Xaa Cys Met Cys His Tyr
                                25
Ile Ile Ser Tyr Asn Tyr Phe Ile Ile Ile Cys His Pro Leu Xaa Tyr
                            40
Leu Leu Ile Met Asn Leu Tyr Leu Leu Leu Asn Leu Thr Leu Met Thr
                        55
Trp Ser Asp Asn Ser Phe Ile Phe Val Ile Met Tyr Thr Leu Ile Leu
                    70
                                        75
Lys Phe Pro Ser Met Lys Lys Lys Asn Leu Gln Asp Asn Ser Leu His
                85
                                    90
Val Leu Leu Ala Met Leu Lys Thr Val Phe Leu Asp Ala Thr Ile Glu
            100
                                105
Glu Met Ser Val Phe Val Leu Asn Asn Val Asn Val Leu Ile Cys Leu
                            120
                                                125
Ile Ser Asn Phe Thr Cys Tyr Gly Tyr Ile Ala Gly Ala Leu Arg Met
                        135
                                            140
Asn Thr Ser Asn Xaa Ile Arg Ser Lys Leu Arg Asn Gln Tyr His His
                    150
                                        155
His His Arg Cys His Phe Ile Ile Asp Ser Ile Phe Tyr Gly Ile
                                    170
                                                        175
Ile Val Xaa Met Leu Leu Gln Asp Gly Asn Asn Ser Ser Gln Asp Gln
            180
                                185
                                                    190
Glu Arg Phe Phe Ile Leu Phe Tyr Thr Ile Leu Thr Pro Ser Leu Lys
                            200
Leu Leu Val Tyr Leu Leu Arg Asn Lys Asp Ile Lys Asp Ile Ser Arg
```

3

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215
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 Arg Ile Leu Arg Phe Gly Arg Glu Ser Ser Lys Met Lys Gly Asn
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                                        235
 <210> 1527
 <211> 255
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 <213> Unknown (H38g444 protein)
 <220>
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Met Tyr Phe Leu Leu Ser Gln Leu Ser Leu Ile Asp Leu Asn Tyr Ile
                 -5
                                    10
Ser Thr Ile Val Pro Lys Met Ala Ser Asp Phe Leu His Gly Asn Lys
            20
                                25
Ser Ile Ser Phe Thr Gly Cys Gly Ile His Ser Phe Phe Phe Thr Thr
                            40
                                                45
Leu Ala Val Val Glu Ala Leu Leu Leu Ile Ser Met Ala Tyr Val Arg
                        55
                                            60
Cys Ile Ala Ile Cys Phe Pro Leu His Tyr Leu Met Arg Met Ser Lys
                    70
                                        75
Arg Val Cys Val Leu Met Ile Thr Gly Ser Trp Ile Ile Gly Ser Ile
                                    90
Asn Ala Cys Ala His Thr Val Tyr Ile Leu His Ile Pro Tyr Cys Pro
            100
                                105
Ser Arg Val Ile Asn His Phe Phe Cys Asp Val Pro Ala Met Val Thr
                            120
Leu Ala Cys Met Asp Thr Trp Val Tyr Glu Gly Thr Val Leu Leu Ser
                        135
                                            140
Ala Thr Ile Phe Leu Val Phe Pro Phe Ile Ala Ile Ser Cys Ser Tyr
                    150
                                        155
Gly Arg Val Leu Leu Ala Val Tyr His Met Lys Ser Ala Glu Gly Lys
                165
                                    170
Lys Lys Ala Tyr Leu Thr Cys Ser Thr His Leu Thr Val Val Thr Phe
           180
                                185
Tyr Tyr Ala Pro Phe Ala Tyr Thr Tyr Leu Arg Pro Arg Ser Leu Arg
        195
                           200
                                                205
Ser Pro Thr Glu Asp Lys Val Leu Ala Val Phe Tyr Thr Ile Leu Thr
                        215
                                            220
Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Glu Val Met
                   230
                                       235
Gly Ala Leu Thr Arg Val Ile Gln Lys Ile Phe Ser Val Lys Ile
                245
                                    250
<210> 1528
<211> 320
<212> PRT
<213> Unknown (H38g445 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(320)
<223> Xaa = Any Amino Acid
<400> 1528
Leu Ser Xaa Pro Thr Arg Ala Ala Gln Lys Gln Phe Ile Leu Leu Gly
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Phe Ser Gly Arg Pro Arg Leu Glu His Val Leu Phe Val Phe Val Leu
                                25
Ile Phe Tyr Leu Val Thr Leu Val Gly Asn Ile Ile Ile Leu Ile
                           40
Ser His Leu Asp Pro Cys Leu His Met Pro Met Tyr Phe Phe Leu Thr
                       55
Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Ser Ile Pro Gln
                    70
Leu Leu Phe Asn Leu Gly Ser Pro Gly Lys Thr Ile Ser His Thr Gly
Cys Ala Ile Gln Leu Phe Met Phe Leu Gly Leu Gly Thr Glu Cys
                                105
           100
Ile Leu Leu Ala Ala Val Ala Tyr Asp Arg Phe Ile Ala Ile Cys Lys
                           120
Pro Leu His Tyr Ser Val Ile Met His Pro Gln Leu Cys Trp Lys Leu
                       135
                                           140
Val Ser Val Ala Arg Gly Cys Trp Thr Pro Gln Phe Ser Ser Tyr Val
                                       155
                   150
Ser Trp Thr Met Lys Leu Pro Arg Cys Gly Arg Cys Lys Leu Lys His
                                   170
               165
Phe Leu Cys Glu Met Pro Ala Leu Ile Lys Ile Thr Cys Val Asp Thr
           180
                               185
Val Ala Met Glu Ser Thr Val Phe Thr Leu Ser Val Val Ile Val Leu
                           200
                                                205
Met Pro Leu Cys Leu Ile Leu Ile Ser Tyr Ser Tyr Ile Ala Leu Ala
                       215
                                           220
Val Leu Arg Ile Lys Ser Ala Ala Gly Arg Arg Lys Ala Phe Asn Met
                                       235
                    230
Cys Gly Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly Asn Ile Ile
                                    250
                                                        255
Tyr Met Tyr Met Gln Pro Xaa Asn Asn Ser Ser Gln Asp Gln Gly Lys
           260
                  .
                               265
Phe Leu Thr Leu Phe Tyr Asn Leu Met Thr Pro Met Leu Asn Pro Val
                           280
Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Lys Arg Leu
                       295
                                           300
Val Ser Arg Lys His Ser Asp Ser Asp Cys Ser Xaa Asp Cys Phe Phe
                    310
<210> 1529
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<212> PRT
<213> Unknown (H38g446 protein)
<220>
<223> Synthetic construct
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Met Glu Asn Tyr Asn Gln Thr Ser Thr Ala Phe Ile Leu Leu Gly Leu
                                   10
Ser Pro Pro Pro Lys Ile Gly His Phe Ile Phe Ile Leu Ile Asn Phe
                                                   30
                               25
Val Phe Leu Met Ala Leu Ile Gly Asn Leu Ser Met Ile Leu Leu Ile
                           40
                                               45
Phe Leu Asp Ile His Leu His Thr Pro Met Tyr Phe Leu Leu Ser Gln
                       55
                                           60
Leu Ser Leu Ile Asp Leu Asn Tyr Ile Ser Thr Ile Val Pro Lys Met
                   70
                                       75
Val Tyr Asp Phe Ser Cys His Gly Asn Lys Ser Ile Ser Phe Thr Gly
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90

Cys Gly Ile Gln Ser Phe Phe Leu Thr Leu Ala Gly Ala Glu Ala

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100
                                 105
 Leu Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile
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 <210> 1530
 <211> 326
 <212> PRT
 <213> Unknown (H38g447 protein)
 <220>
 <223> Synthetic construct
 <400> 1530
 Met Glu Arg Ala Asn Asp Ser Thr Phe Ser Gly Phe Ile Leu Leu Gly
                                    10
 Phe Ser Asn Arg Pro Gln Leu Glu Thr Ala Leu Phe Val Val Ile Leu
            20
                                25
 Ile Ile Tyr Phe Leu Ser Phe Leu Gly Asn Gly Thr Ile Ile Leu Leu
                            40
                                                 45
 Ser Ile Val Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                                            60
Asn Leu Ser Phe Met Asp Leu Cys Leu Thr Thr Cys Thr Val Pro Gln
                    70
Thr Leu Val Asn Phe Lys Gly Lys Asp Lys Thr Ile Thr Tyr Gly Gly
                85
                                    90
Cys Val Thr Gln Leu Phe Ile Ala Leu Gly Leu Gly Gly Ser Glu Cys
            100
                                105
Val Leu Leu Ser Ala Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Arg
                            120
                                                125
Pro Leu His Tyr Met Val Ser Met His Pro Gln Leu Cys Leu Gln Leu
                       135
                                            140
Val Val Thr Thr Trp Leu Thr Gly Phe Gly Asn Ser Val Ile Gln Thr
                   150
                                        155
Ala Leu Thr Met Thr Leu Pro Leu Cys Asp Lys Asn Gln Val Asp His
                165
                                    170
Phe Phe Cys Glu Val Pro Val Met Leu Lys Leu Ser Cys Thr Asn Thr
            180
                                185
                                                    190
Ser Ile Asn Glu Ala Glu Ile Phe Ala Val Ser Val Phe Phe Leu Val
                            200
Val Pro Leu Ser Leu Ile Leu Ala Ser Tyr Gly His Ile Thr His Ala
                        215
                                            220
Val Leu Lys Ile Lys Ser Ala Gln Gly Arg Gln Lys Ala Phe Gly Thr
                                        235
Cys Gly Ser His Leu Leu Val Val Ile Ile Phe Phe Gly Thr Leu Ile
                245
                                    250
Ser Met Tyr Leu Gln Pro Pro Ser Ser Tyr Ser Gln Asp Val Asn Lys
           260
                                265
Ser Ile Ala Leu Phe Tyr Thr Leu Val Thr Pro Leu Leu Asn Pro Leu
        275
                           280
Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Gly Ala Thr Lys Lys Thr
                       295
                                           300
Ser Gly Glu Asp His Arg Cys Met Arg Lys Leu Thr Gln Gly Leu Gln
                    310
                                      315
Phe Gln Thr Phe Val His
                325
<210> 1531
<211> 312
<212> PRT
<213> Unknown (H38g448 protein)
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<223> Synthetic construct <400> 1531 Met Glu Asn Tyr Asn Gln Thr Ser Thr Asp Phe Ile Leu Leu Gly Leu 5 10 Phe Pro Pro Ser Ile Ile Asp Leu Phe Phe Phe Ile Leu Ile Val Phe 20 25 Ile Phe Leu Met Ala Leu Ile Gly Asn Leu Ser Met Ile Leu Leu Ile 40 45 Phe Leu Asp Thr His Leu His Thr Pro Met Tyr Phe Leu Leu Ser Gln Leu Ser Leu Ile Asp Leu Asn Tyr Ile Ser Thr Ile Val Pro Lys Met Ala Ser Asp Phe Leu His Gly Asn Lys Ser Ile Ser Phe Thr Gly Cys 90 Gly Ile Gln Ser Phe Phe Phe Leu Ala Leu Gly Gly Ala Glu Ala Leu 100 105 Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Phe Pro 120 Leu His Tyr Leu Ile Arg Met Ser Lys Arg Val Cys Val Leu Met Ile 135 140 Thr Gly Ser Trp Ile Ile Gly Ser Ile Asn Ala Cys Ala His Thr Val 150 Tyr Val Leu His Ile Pro Tyr Cys Arg Ser Arg Ala Ile Asn His Phe 165 170 Phe Cys Asp Val Pro Ala Met Val Thr Leu Ala Cys Met Asp Thr Trp 180 185 190 Val Tyr Glu Gly Thr Val Phe Leu Ser Ala Thr Ile Phe Leu Val Phe Pro Phe Ile Gly Ile Ser Cys Ser Tyr Gly Gln Val Leu Phe Ala Val 215 Tyr His Met Lys Ser Ala Glu Gly Arg Lys Lys Ala Tyr Leu Thr Cys 230 235 Ser Thr His Leu Thr Val Val Thr Phe Tyr Tyr Ala Pro Phe Val Tyr 245 250 Thr Tyr Leu Arg Pro Arg Ser Leu Arg Ser Pro Thr Glu Asp Lys Val 260 265 270 Leu Ala Val Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Ile Ile 280 285 Tyr Ser Leu Arg Asn Lys Glu Val Met Gly Ala Leu Thr Arg Val Ser 295 Gln Arg Ile Cys Ser Val Lys Met <210> 1532 <211> 312 <212> PRT <213> Unknown (H38g449 protein) <223> Synthetic construct <400> 1532 Met Pro Asn Ser Thr Thr Val Met Glu Phe Leu Leu Met Arg Phe Ser 10 Asp Val Trp Thr Leu Gln Ile Leu His Ser Ala Ser Phe Phe Met Leu 20 25 Tyr Leu Val Thr Leu Met Gly Asn Ile Leu Ile Val Thr Val Thr Thr 40

Cys Asp Ser Ser Leu His Met Pro Met Tyr Phe Phe Leu Arg Asn Leu

```
55
                                             60
 Ser Ile Leu Asp Ala Cys Tyr Ile Ser Val Thr Val Pro Thr Ser Cys
                    70
                                        75
 Val Asn Ser Leu Leu Asp Ser Thr Thr Ile Ser Lys Ala Gly Cys Val
                                    90
 Ala Gln Val Phe Leu Val Val Phe Phe Val Tyr Val Glu Leu Leu Phe
                                 105
 Leu Thr Ile Met Ala His Asp Arg Tyr Val Ala Val Cys Gln Pro Leu
                            120
                                                125
 His Tyr Pro Val Ile Val Asn Ser Arg Ile Cys Ile Gln Met Thr Leu
                        135
                                            140
Ala Ser Leu Leu Ser Gly Leu Val Tyr Ala Gly Met His Thr Gly Ser
                    150
                                        155
Thr Phe Gln Leu Pro Phe Cys Arg Ser Asn Val Ile His Gln Phe Phe
                165
                                    170
Cys Asp Ile Pro Ser Leu Leu Lys Leu Ser Cys Ser Asp Thr Phe Ser
            180
                                185
Asn Glu Val Met Ile Val Val Ser Ala Leu Gly Val Gly Gly Cys
                            200
Phe Ile Phe Ile Ile Arg Ser Tyr Ile His Ile Phe Ser Thr Val Leu
                        215
                                            220
Gly Phe Pro Arg Gly Ala Asp Arg Thr Lys Ala Phe Ser Thr Cys Ile
                    230
                                        235
Pro His Ile Leu Val Val Ser Val Phe Leu Ser Ser Cys Ser Ser Val
                245
                                    250
Tyr Leu Arg Pro Pro Ala Ile Pro Ala Ala Thr Gln Asp Leu Ile Leu
                                265
Ser Gly Phe Tyr Ser Ile Met Pro Pro Leu Phe Asn Pro Ile Ile Tyr
                            280
                                                285
Ser Leu Arg Asn Lys Gln Ile Lys Val Ala Ile Lys Lys Ile Met Lys
                        295
Arg Ile Phe Tyr Ser Glu Asn Val
                    310
<210> 1533
<211> 311
<212> PRT
<213> Unknown (H38g450 protein)
<220>
<223> Synthetic construct
<400> 1533
Arg Asn Ala Pro Leu Glu Lys Tyr Asn Gln Thr Ser Thr Asp Phe Ile
                                    10
Leu Leu Gly Ile Phe Pro Pro Ser Arg Ile Gly Phe Leu Leu Phe Ile
                                25
Leu Leu Val Leu Ile Leu Leu Ala Leu Ile Gly Asn Gln Ser Val
                            40
Ile Leu Leu Ile Phe Leu Asp Thr His Leu His Thr Pro Ile Tyr Phe
                        55
Leu Leu Ser Arg Leu Tyr Leu Ile Asp Leu Asn Tyr Ile Ser Thr Ile
                    70
Val Pro Lys Met Phe Ser Asp Phe Leu Phe Gly Asn Lys Ser Ile Ser
                85
                                    90
Phe Ile Gly Cys Gly Ile Gln Ser Phe Phe Phe Val Thr Leu Ala Gly
                                105
Ala Glu Met Leu Pro Leu Thr Ser Met Ala Cys Asp His Tyr Val Ala
                           120
                                                125
Val Cys Phe Pro Leu His Tyr Pro Ile His Met Ser Lys Ile Val Cys
                       135
                                            140
```

```
Leu Met Ile Ile Gly Ser Trp Ile Met Gly Ser Ile Asp Thr Cys Ala
                    150
                                        155
His Ile Ser Tyr Met Pro His Ile Pro Val Cys Ser Ala Arg Ala Cys
                165
                                    170
Asp Val Pro Ala Met Val Thr Leu Ala Phe Val Asp Thr Trp Val Tyr
            180
                               185
                                                    190
Glu Cys Thr Val Phe Leu Ser Thr Thr Leu Phe Leu Met Phe Thr Phe
                            200
                                                205
Ile Gly Ile Ala Cys Ser Tyr Gly Glu Val Leu Leu Thr Val Tyr His
                        215
                                            220
Ile Lys Ser Ala Glu Gly Arg Lys Lys Ala Tyr Ser Thr Cys Ser Thr
                    230
                                        235
His Leu Thr Val Val Ile Ile Tyr Tyr Ala Met Phe Ala Tyr Thr Tyr
                245
                                    250
Leu Tyr Pro Arg Tyr Leu Gln Ser Pro Thr Glu Asp Lys Val Leu Ala
            260
                                265
Val Phe Tyr Thr Ile Leu Thr Ser Met Leu Asn Pro Ile Ile Tyr Ser
                           280
                                                285
        275
Leu Arg Asn Arg Glu Val Met Gly Ala Leu Thr Arg Val Ser Gln Arg
                       295
                                           300
Ile Phe Pro Val Lys Met Lys
<210> 1534
<211> 192
<212> PRT
<213> Unknown (H38g451 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(192)
<223> Xaa = Any Amino Acid
<400> 1534
Arg His Thr Glu Pro Arg Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu
                5
                                    10
Leu Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu
           20
                                25
Ser Leu Ser Leu Ser Leu Tyr Leu Val Met Val Leu Arg Asn
                            40
Leu Leu Ser Ile Leu Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro
                        55
Met Tyr Phe Phe Leu Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr
                    70
                                        75
Ser Ala Thr Val Pro Lys Val Thr Val Asp Met Gln Ser His Ser Arg
               85
                                    90
Val Ile Ser His Ala Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu
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165 170 175

Asn Val Glu Ile Ser His Phe Val Ser Asp Pro Ser Gln Leu Leu Asn
180 185 190

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<210> 1535
<211> 317
<212> PRT
<213> Unknown (H38g452 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(317)
<223> Xaa = Any Amino Acid
<400> 1535
Met Asp Arg Arg Asn Gln Thr Cys Ile Tyr Glu Phe Leu Leu Met Gly
                5
                                    10
Phe Ser Glu His Gln Glu Gln Ala Leu Leu Phe Gly Leu Phe Leu
           20
                                25
Val Met Tyr Leu Val Thr Val Leu Glu Asn Leu Leu Ile Ile Leu Ala
       35
                            40
                                               45
Ile Gly Ser Asp Leu His Leu His Thr Pro Met Tyr Leu Phe Leu Ser
Asn Leu Ser Phe Leu Asp Ile Gly Phe Ile Ser Thr Ile Ile Pro Lys
                    70
                                        75
Met Leu Asp His Ile Ser Ser Gly Ile Lys Leu Ile Ser Tyr Gly Glu
               85
                                   90
Cys Leu Thr Gln Leu Tyr Phe Ser Gly Leu Phe Ala Asp Leu Asp Asn
                               105
Asn Phe Leu Leu Ala Val Met Ala Leu Asp Arg Tyr Val Ala Ile Ser
                           120
His Pro Leu His Tyr Ala Leu Thr Met Asn Ser Gln Arg Cys Val Leu
                       135
                                           140
Leu Val Ala Val Ser Trp Val Ile Thr Ile Leu His Ala Leu Val His
                  150
                                       155
Thr Leu Leu Val Thr Arg Leu Ser Phe Cys Gly Pro Asn Ile Ile Pro
                                   170
               165
His Phe Phe Cys Asp Leu Val Pro Leu Leu Lys Leu Ala Cys Ser Ser
                                185
                                                   190
Thr Cys Val Asn Asp Leu Val Leu Ile Leu Val Ala Gly Thr Leu Leu
        195
                            200
                                               205
Ile Ala Pro Phe Val Cys Ile Leu Met Ser Tyr Phe Tyr Ile Ala Leu
                       215
                                           220
Ala Ile Leu Arg Ile Asp Ser Pro Arg Gly Lys Gln Arg Ala Phe Ser
                   230
                                       235
Ser Cys Thr Ser His Leu Ser Val Val Ser Leu Phe Tyr Ser Thr Ala
                                    250
Ile Gly Val Tyr Leu Cys Pro Pro Ser Ser His Ser Asp Gly Lys Asp
            260
                               265
                                                   270
Arg Val Phe Ser Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro
                           280
                                               285
Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala Leu Gly Lys
                      295
                                           300
Leu Leu Gly Ile Lys Thr Ser Xaa His Pro Tyr Ser Arg
                   310
<210> 1536
<211> 252
<212> PRT
<213> Unknown (H38g453 protein)
<220>
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806

<223> Synthetic construct

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<221> VARIANT
<222> (1)...(252)
<223> Xaa = Any Amino Acid
<400> 1536
His Leu Xaa Trp Cys Val Phe Arg Tyr Leu Gly Ile Val Val Glu Ile
                                    10
His Ile Val Phe Xaa Thr Phe Arg Cys Arg Ser Leu Val Ala Gly Tyr
            20
                                25
Val Leu Xaa Thr Phe Val Ala Ile His Leu Arg Arg Asn Ala Ala Phe
                            40
Ser Ile Glu Phe Leu Cys Tyr Lys Xaa Arg Met Gln Asp Ile Asn Xaa
Thr Lys Xaa Gly Lys Ile Leu Tyr Ser Leu Arg Glu Phe Lys Arg Leu
Leu Ala Thr Ser Leu Tyr Ser Ala Xaa Val Asn Arg Phe Leu Leu Asn
                                    90
Lys Leu Leu Pro Gly Leu Val Ser Lys Gln Ile Glu Thr Tyr Phe Arg
            100
                                105
Lys Glu Ile Tyr Ile Leu Ile Ser Thr Ile Arg Phe Ser Tyr Val Glu
                            120
                                                125
Thr Leu Glu Gly Glu Xaa Gly Val Asn Val Ser Ser Ile Ile Phe Leu
                       135
                                            140
Leu Ile Pro Phe Ser Met Ile Ser Ala Ser Ser Val Gln Ile Leu Xaa
                   150
                                        155
Gly Val Leu Xaa Met Lys Leu Ser Gln Ala Trp Lys Arg Ser Phe Ser
                165
                                    170
Thr Trp Ser Ile Leu Met Ile Ala Val Val Thr Tyr Trp Asp Ser Phe
                                                    190
            180
                                185
Ile Phe Thr Tyr Val Tyr Glu Thr Xaa Ile Ile His Ile Ser Gly Gln
        195
                            200
Val Lys Phe Leu Glu Ile Phe Tyr Ala Phe Leu Ala Leu Thr Leu Asn
                        215
                                            220
Pro Val Val Tyr Ser Val Gly Thr Asp Ser Val Leu Val Ala Met Lys
                    230
                                        235
                                                            240
Asn Met Leu Xaa Ser Asn Ile Leu His Lys Lys
<210> 1537
<211> 313
<212> PRT
<213> Unknown (H38g454 protein)
<220>
<223> Synthetic construct
<400> 1537
Met Asp Gln Ile Asn His Thr Asn Val Lys Glu Phe Phe Leu Glu
                                    10
Leu Thr Arg Ser Arg Glu Leu Glu Phe Phe Leu Phe Val Val Phe Phe
                                25
Ala Val Tyr Val Ala Thr Val Leu Gly Asn Ala Leu Ile Val Val Thr
                            40
Ile Thr Cys Glu Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Arg
                        55
                                            60
Asn Lys Ser Val Leu Asp Ile Val Phe Ser Ser Ile Thr Val Pro Lys
                   70
                                        75
Phe Leu Val Asp Leu Leu Ser Asp Arg Lys Thr Ile Ser Tyr Asn Asp
               85
                                    90
```

Cys Met Ala Gln Ile Phe Phe Phe His Phe Ala Gly Gly Ala Asp Ile

```
105
Phe Phe Leu Ser Val Met Ala Tyr Asp Arg Tyr Leu Ala Ile Ala Lys
                                          · 125
                           120
Pro Leu His Tyr Val Thr Met Met Arg Lys Glu Val Trp Val Ala Leu
                        135
                                            140
Val Val Ala Ser Trp Val Ser Gly Gly Leu His Ser Ile Ile Gln Val
                    150
                                       155
Ile Leu Met Leu Pro Phe Pro Phe Cys Gly Pro Asn Thr Leu Asp Ala
               165
                                   170
Phe Tyr Cys Tyr Val Leu Gln Val Val Lys Leu Ala Cys Thr Asp Thr
            180
                               185
Phe Ala Leu Glu Leu Phe Met Ile Ser Asn Asn Gly Leu Val Thr Leu
                           200
Leu Trp Phe Leu Leu Leu Gly Ser Tyr Thr Val Ile Leu Val Met
                       215
                                           220
Leu Arg Ser His Ser Gly Glu Gly Arg Asn Lys Ala Leu Ser Thr Cys
                   230
                                       235
Thr Ser His Met Leu Val Val Thr Leu His Phe Val Pro Cys Val Tyr
               245
                                   250
Ile Tyr Cys Arg Pro Phe Met Thr Leu Pro Met Asp Thr Thr Ile Ser
            260
                               265
Ile Asn Asn Thr Val Ile Thr Pro Met Leu Asn Pro Ile Ile Tyr Ser
                           280
                                               285
Leu Arg Asn Gln Glu Met Lys Ser Ala Met Gln Arg Leu Gln Arg Arg
                       295
                                          300
Leu Gly Pro Ser Glu Ser Arg Lys Trp
                    310
<210> 1538
<211> 309
<212> PRT
<213> Unknown (H38g455 protein)
<220>
<223> Synthetic construct
Met Glu Arg Ile Asn His Thr Ser Ser Val Ser Glu Phe Ile Leu Leu
Gly Leu Ser Ser Arg Pro Glu Asp Gln Lys Thr Leu Phe Val Leu Phe
    . 20
                               25
Leu Ile Val Tyr Leu Val Thr Ile Thr Gly Asn Leu Leu Ile Ile Leu
                           40
Ala Ile Arg Phe Asn Pro His Leu Gln Thr Pro Met Tyr Phe Phe Leu
                       55
                                           60
Ser Phe Leu Ser Leu Thr Asp Ile Cys Phe Thr Thr Ser Val Val Pro
                   70
                                       75
Lys Met Leu Met Asn Phe Leu Ser Glu Lys Lys Thr Ile Ser Tyr Ala
                                   90
Gly Cys Leu Thr Gln Met Tyr Phe Leu Tyr Ala Leu Gly Asn Ser Asp
                               105
Ser Cys Leu Leu Ala Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys
                           120
                                               125
Asp Pro Phe His Tyr Val Thr Thr Met Ser His His Cys Val Leu
                       135
                                           140
Leu Val Ala Phe Ser Cys Ser Phe Pro His Leu His Ser Leu Leu His
                   150
                                       155
Thr Leu Leu Asn Arg Leu Thr Phe Cys Asp Ser Asn Val Ile His
               165
                                   170
His Phe Leu Cys Asp Leu Ser Pro Val Leu Lys Leu Ser Cys Ser Ser
                              185
                                                  190
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Ile Phe Val Asn Glu Ile Val Gln Met Thr Glu Ala Pro Ile Val Leu 200 Val Thr Arg Phe Leu Cys Ile Ala Phe Ser Tyr Ile Arg Ile Leu Thr 220 215 Thr Val Leu Lys Ile Pro Ser Thr Ser Gly Lys Arg Lys Ala Phe Ser 230 235 Thr Cys Gly Phe Tyr Leu Thr Val Val Thr Leu Phe Tyr Gly Ser Ile 250 245 Phe Cys Val Tyr Leu Gln Pro Pro Ser Thr Tyr Ala Val Lys Asp His 265 Val Ala Thr Ile Val Tyr Thr Val Leu Ser Ser Met Leu Asn Pro Phe 280 285 275 Ile Tyr Ser Leu Arg Asn Lys Asp Leu Lys Gln Gly Leu Arg Lys Leu 295 Met Ser Lys Arg Ser 305 <210> 1539 <211> 313 <212> PRT <213> Unknown (H38g456 protein) <220> <223> Synthetic construct <400> 1539 Met Ala Asn Val Thr Leu Val Thr Gly Phe Leu Leu Met Gly Phe Ser 5 10 Asn Ile Gln Lys Leu Arg Ile Leu Tyr Gly Val Leu Phe Leu Leu Ile 20 25 Tyr Leu Ala Ala Leu Met Ser Asn Leu Leu Ile Ile Thr Leu Ile Thr 40 45 Leu Asp Val Lys Leu Gln Thr Pro Met Tyr Phe Phe Leu Lys Asn Leu 55 Ser Phe Leu Asp Val Phe Leu Val Ser Val Pro Ile Pro Lys Phe Ile 70 75 Val Asn Asn Leu Thr His Asn Asn Ser Ile Ser Ile Leu Gly Cys Ala 90 85 Phe Gln Leu Leu Met Thr Ser Phe Ser Ala Gly Glu Ile Phe Ile 100 105 Leu Thr Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Cys Pro Leu 120 Asn Tyr Glu Val Ile Met Asn Thr Gly Val Cys Val Leu Met Ala Ser 135 140 Val Ser Trp Ala Ile Gly Gly Leu Phe Gly Thr Ala Tyr Thr Ala Gly 155 150 Thr Phe Ser Met Pro Phe Cys Gly Ser Ser Val Ile Pro Gln Phe Phe 170 165 Cys Asp Val Pro Ser Leu Leu Arg Ile Ser Cys Ser Glu Thr Leu Met 185 190 Val Ile Tyr Ala Gly Ile Gly Val Gly Ala Cys Leu Ser Ile Ser Cys 205 195 200 Phe Ile Cys Ile Val Ile Ser Tyr Ile Tyr Ile Phe Ser Thr Val Leu 215 220 Lys Ile Pro Thr Thr Lys Gly Gln Ser Lys Ala Phe Ser Thr Cys Phe 230 235 Pro His Leu Thr Val Phe Thr Val Phe Ile Ile Thr Ala Tyr Phe Val 245 250 Tyr Leu Lys Pro Pro Ser Asn Ser Pro Ser Val Ile Asp Arg Leu Leu 265

Ser Val Ile Tyr Thr Val Met Pro Pro Val Phe Asn Pro Val Thr Tyr

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280
 Ser Leu Arg Asn Asn Asp Met Lys Cys Ala Leu Ile Arg Leu Leu Gln
                         295
 Lys Thr Tyr Gly Gln Glu Ala Tyr Phe
                    310
 <210> 1540
<211> 324
 <212> PRT
 <213> Unknown (H38g457 protein)
<220>
<223> Synthetic construct
<400> 1540
Met Ala Val Gly Arg Asn Asn Thr Ile Val Thr Lys Phe Ile Leu Leu
                                    10
Gly Leu Ser Asp His Pro Gln Met Lys Ile Phe Leu Phe Met Leu Phe
            20
                                25
Leu Gly Leu Tyr Leu Leu Thr Leu Ala Trp Asn Leu Ser Leu Ile Ala
                            40
                                                 45
Leu Ile Lys Met Asp Ser His Leu His Met Pro Met Tyr Phe Phe Leu
                        55
                                             60
Ser Asn Leu Ser Phe Leu Asp Ile Cys Tyr Val Ser Ser Thr Ala Pro
                    70
                                        75
Lys Met Leu Ser Asp Ile Ile Thr Glu Gln Lys Thr Ile Ser Phe Val
                85
                                    90
Gly Cys Ala Thr Gln Tyr Phe Val Phe Cys Gly Met Gly Leu Thr Glu
                                105
Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys
                            120
Asn Pro Leu Leu Tyr Thr Val Leu Ile Ser His Thr Leu Cys Leu Lys
                        135
                                            140
Met Val Val Gly Ala Tyr Val Gly Gly Phe Leu Ser Ser Phe Ile Glu
                   150
                                        155
Thr Tyr Ser Val Tyr Gln His Asp Phe Cys Gly Pro Tyr Met Ile Asn
                165
                                    170
His Phe Phe Cys Asp Leu Pro Pro Val Leu Ala Leu Ser Cys Ser Asp
            180
                                185
                                                    190
Thr Phe Thr Ser Glu Val Val Thr Phe Ile Val Ser Val Val Val Gly
                            200
                                                205
Ile Val Ser Val Leu Val Val Leu Ile Ser Tyr Gly Tyr Ile Val Ala
                        215
                                            220
Ala Val Val Lys Ile Ser Ser Ala Thr Gly Arg Thr Lys Ala Phe Ser
                    230
                                        235
Thr Cys Ala Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Ser Gly
                245
                                    250
Phe Phe Met Tyr Met Arg Pro Ser Ser Ser Tyr Ser Leu Asn Arg Asp
           260
                                265
Lys Val Val Ser Ile Phe Tyr Ala Leu Val Ile Pro Val Val Asn Pro
                           280
                                                285
Ile Ile Tyr Ser Phe Arg Asn Lys Glu Ile Lys Asn Ala Met Arg Lys
                       295
                                            300
Ala Met Glu Arg Asp Pro Gly Ile Ser His Gly Gly Pro Phe Ile Phe
                    310
                                        315
Met Thr Leu Gly
<210> 1541
<211> 314
<212> PRT
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<213> Unknown (H38g458 protein) <220> <223> Synthetic construct <400> 1541 Met Thr Asn Gln Thr Gln Met Met Glu Phe Leu Leu Val Arg Phe Thr 10 Glu Asn Trp Val Leu Leu Arg Leu His Ala Leu Leu Phe Ser Leu Ile Tyr Leu Thr Ala Val Leu Met Asn Leu Val Ile Ile Leu Leu Met Ile 40 Leu Asp His Arg Leu His Met Ala Met Tyr Phe Phe Leu Arg His Leu 55 Ser Phe Leu Asp Leu Cys Leu Ile Ser Ala Thr Val Pro Lys Ser Ile 70 75 Leu Asn Ser Val Ala Ser Thr Asp Ser Ile Ser Phe Leu Gly Cys Val 90 Leu Gln Leu Phe Leu Val Val Leu Leu Ala Gly Ser Glu Ile Gly Ile 105 Leu Thr Ala Met Ser Tyr Asp Arg Tyr Ala Ala Ile Cys Cys Pro Leu 120 125 His Cys Glu Ala Val Met Ser Arg Gly Leu Cys Val Gln Leu Met Ala 130 135 140 Leu Ser Trp Leu Asn Arg Gly Ala Leu Gly Leu Leu Tyr Thr Ala Gly 150 155 Thr Phe Ser Leu Asn Phe Tyr Gly Ser Asp Glu Leu His Gln Phe Phe 170 Cys Asp Val Pro Ala Leu Leu Lys Leu Thr Cys Ser Lys Glu His Ala 180 185 190 Ile Ile Ser Val Ser Val Ala Ile Gly Val Cys Tyr Ala Phe Ser Cys 200 Leu Val Cys Ile Val Val Ser Tyr Val Tyr Ile Phe Ser Ala Val Leu 215 220 Arg Ile Ser Gln Arg Gln Arg Gln Ser Lys Ala Phe Ser Asn Cys Val 230 235 Pro His Leu Ile Val Val Thr Val Phe Leu Val Thr Gly Ala Val Ala 245 250 Tyr Leu Lys Pro Gly Ser Asp Ala Pro Ser Ile Leu Asp Leu Leu Val 260 265 270 Ser Val Phe Tyr Ser Val Ala Pro Pro Thr Leu Asn Pro Val Ile Tyr 280 Cys Leu Lys Asn Lys Asp Ile Lys Ser Ala Leu Ser Lys Val Leu Trp 295 300 Asn Val Arg Ser Ser Gly Val Met Lys Arg 310 <210> 1542 <211> 307 <212> PRT <213> Unknown (H38g459 protein) <220> <223> Synthetic construct <400> 1542 Met Asn His Ser Val Val Thr Glu Phe Ile Ile Leu Gly Leu Thr Lys 10 Lys Pro Glu Leu Gln Gly Ile Ile Phe Leu Phe Phe Leu Ile Val Tyr

Leu Val Ala Phe Leu Gly Asn Met Leu Ile Ile Ala Lys Ile Tyr

```
40
Asn Asn Thr Leu His Thr Pro Met Tyr Val Phe Leu Leu Thr Leu Ala
                        55
Val Val Asp Ile Ile Cys Thr Thr Ser Ile Ile Pro Lys Met Leu Gly
                    70
Thr Met Leu Thr Ser Glu Asn Thr Ile Ser Tyr Ala Gly Cys Met Ser
                                    90
                85
Gln Leu Phe Leu Phe Thr Trp Ser Leu Gly Ala Glu Met Val Leu Phe
            100
                                105
Thr Thr Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu His
                            120
Tyr Ser Thr Val Met Asn His His Met Cys Val Ala Leu Leu Ser Met
                        135
                                            140
Val Met Ala Ile Ala Val Thr Asn Ser Trp Val His Thr Ala Leu Ile
                    150
                                        155
Met Arg Leu Thr Phe Cys Gly Pro Asn Thr Ile Asp His Phe Phe Cys
                                    170
Glu Ile Pro Pro Leu Leu Ala Leu Ser Cys Ser Pro Val Arg Ile Asn
                               185
Glu Val Met Val Tyr Val Ala Asp Ile Thr Leu Ala Ile Gly Asp Phe
                            200
Ile Leu Thr Cys Ile Ser Tyr Gly Phe Ile Ile Val Ala Ile Leu Arg
                        215
                                            220
Ile Arg Thr Val Glu Gly Lys Arg Lys Ala Phe Ser Thr Cys Ser Ser
                    230
                                        235
His Leu Thr Val Val Thr Leu Tyr Tyr Ser Pro Val Ile Tyr Thr Tyr
                                    250
Ile Arg Pro Ala Ser Ser Tyr Thr Phe Glu Arg Asp Lys Val Val Ala
                                265
Ala Leu Tyr Thr Leu Val Thr Pro Thr Leu Asn Pro Met Val Tyr Ser
                            280
Phe Gln Asn Arg Glu Met Gln Ala Gly Ile Arg Lys Val Phe Ala Phe
                        295
                                            300
Leu Lys His
<210> 1543
<211> 270
<212> PRT
<213> Unknown (H38g460 protein)
<220>
<223> Synthetic construct '
<400> 1543
Met Glu Val Ser Gly Asn His Thr Ser Val Ala Met Phe Val Leu Leu
                                    10
Gly Leu Ser Asp Glu Lys Glu Leu Gln Leu Ile Leu Phe Pro Val Phe
                                25
Leu Val Ile Tyr Leu Val Thr Leu Ile Trp Asn Met Gly Leu Ile Ile
                            40
Leu Ile Arg Ile Asp Ser His Leu Asn Thr Pro Met Tyr Phe Phe Leu
                        55
Ser Phe Leu Ser Phe Thr Asp Ile Cys Tyr Ser Ser Thr Ile Ser Pro
                    70
Arg Met Leu Ser Asp Phe Leu Lys Asp Lys Lys Thr Ile Ser Phe Leu
                                    90
Ala Cys Ala Thr Gln Tyr Phe Leu Gly Ala Trp Met Ser Leu Ala Glu
                               105
Cys Cys Leu Leu Val Ile Met Ala Cys Asp Arg Tyr Val Ala Ile Gly
                            120
```

```
Ser Pro Leu Gln Tyr Ser Ala Ile Met Val Pro Ser Ile Cys Trp Lys
                       135
Met Val Ala Gly Val Cys Gly Gly Gly Phe Leu Ser Ser Leu Val His
                    150
                                       155
Thr Val Pro Cys Phe Asn Leu Tyr Tyr Cys Gly Pro Asn Ile Ile Gln
               165
                                    170
His Phe Phe Cys Asn Thr Leu Gln Ile Ile Ser Leu Ser Cys Ser Asn
           180
                               185
                                                    190
Pro Phe Ile Ser Gln Met Ile Leu Phe Leu Glu Ala Ile Phe Val Gly
                           200
                                                205
Leu Gly Ser Leu Leu Val Ile Leu Leu Ser Tyr Gly Phe Ile Val Ala
                       215
                                            220
Ser Ile Leu Lys Ile Ser Ser Thr Lys Cys Cys Ala Lys Ala Phe Asn
                   230
                                        235
Thr Cys Ala Ser His Leu Ala Ala Val Ala Leu Phe Tyr Gly Thr Ala
               245
                                    250
Leu Ser Val Tyr Met His Pro Ser Ser Ser His Ser Met Lys
           260
                              265
```

<210> 1544

<211> 329

<212> PRT

<213> Unknown (H38g461 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(329)

<223> Xaa = Any Amino Acid

<400> 1544

Tyr Ser Lys Glu Ile Ile Glu Xaa Cys Thr Ser Asn Asp Ile Ile Lys 1 5 10 Cys Gly Xaa His Asn Lys Ile Thr Phe Phe Leu Phe Ile Leu Leu Glu 20 25 Phe Thr Glu Asp Leu Gly Leu Gln Gln Val Leu Phe Phe Ile Phe Leu 40 Ile Ile Tyr Val Ile Ser Leu Ser Gly Asn Ile Ile Leu Asn Ser Leu 55 60 Ile Cys Ala Asp Ser Trp Pro Tyr Thr Pro Met Tyr Phe Phe Thr Gly 70 75 Asn Arg Phe Leu Leu Asp Leu Trp Tyr Ser Ser Val His Ile Pro Asp 90 85 Ile Leu Leu Thr Cys Ile Ser Asp Asp Lys Thr Ile Ser Phe Pro Gly 105 100 Cys Leu Ala Gln Phe Phe Ser Ala Val Leu Ala Xaa Asn Glu Cys Tyr 120 125 Met Met Ala Ser Met Ala Tyr Asp Arg Tyr Met Ala Ile Ser Lys Pro 135 140 Leu Leu Tyr Ser Arg Ala Thr Phe Pro Glu Leu Cys Ala Ser Leu Val 150 155 Glu Ala Ser His Leu Gly Gly Phe Val Asn Ser Thr Ile Ile Thr Ser 165 170 Glu Thr Pro Thr Leu Ser Phe Cys Gly Ser Asn Ile Ile Asp Asp Phe 185 190 Phe Cys Asp Leu Pro Pro Leu Val Lys Leu Val Cys Asp Val Lys Glu 200 205 Arg Tyr Gln Ala Val Leu His Phe Met Leu Ala Ser Asn Ile Thr Pro 215 220

Thr Ala Leu Ile Leu Ala Ser Tyr Leu Phe Ile Ile Ala Ala Ile Ser

```
225
                     230
                                         235
Lys Ile Arg Ser Ile Lys Gly Arg Leu Gln Val Phe Ser Thr Cys Gly
                                     250
                                                        255
 Ser Pro Leu Thr Ala Leu Thr Leu Tyr Tyr Gly Ala Ile Phe Phe Ile
             260
                                 265
 Tyr Ser Gln Pro Arg Thr Ser Tyr Ala Leu Lys Met Asp Lys Leu Gly
         275
                             280
                                                 285
Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu Ile Tyr
                        295
Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Leu Lys Lys Met Leu Asp
                    310
                                         315
Arg Leu Gln Phe Leu Lys Glu Lys Tyr
                 325
<210> 1545
<211> 349
<212> PRT
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Met Glu Gln Ser Asn Tyr Ser Val Tyr Ala Asp Phe Ile Leu Leu Gly
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Leu Phe Ser Lys Pro Val Ser Pro Gly Phe Phe Ala Leu Ile Leu Leu
            20
                                25
                                                    30
Val Phe Val Thr Ser Ile Ala Ser Asn Val Val Lys Ile Ile Leu Ile
                            40
                                                45
His Ile Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ser Gln
                        55
Leu Ser Leu Arg Asp Ile Leu Tyr Ile Ser Thr Ile Val Pro Lys Met
                    70
                                        75
Leu Val Asp Gln Val Met Ser Gln Arg Ala Ile Ser Phe Ala Gly Cys
                85
                                    90
Thr Ala Gln His Phe Leu Tyr Leu Thr Leu Ala Gly Ala Glu Phe Phe
                                105
                                                    110
Leu Leu Gly Leu Met Ser Cys Asp Arg Tyr Val Ala Ile Cys Asn Pro
        115
                            120
Leu His Tyr Pro Asp Leu Met Ser Arg Lys Ile Cys Trp Leu Ile Val
                        135
                                            140
Ala Ala Ala Trp Leu Gly Gly Ser Ile Asn Gly Phe Leu Leu Thr Pro
                    150
                                        155
                                                            160
Val Thr Thr Gln Phe Pro Phe Cys Ala Ser Arg Glu Ile Asn His Phe
                                    170
Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Thr Asp Thr Ser
            180
                                185
Ala Tyr Glu Thr Ala Met Tyr Val Cys Cys Ile Met Met Leu Leu Ile
                            200
Pro Phe Ser Val Ile Ser Gly Ser Tyr Thr Arg Ile Leu Ile Thr Val
                        215
                                            220
Tyr Arg Met Ser Glu Ala Glu Gly Arg Arg Lys Ala Val Ala Thr Cys
                    230
                                        235
Ser Ser His Met Val Val Ser Leu Phe Tyr Gly Ala Ala Met Tyr
                245
                                   250
Thr Tyr Val Leu Pro His Ser Tyr His Thr Pro Glu Gln Asp Lys Ala
            260
                                265
```

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Val Ser Ala Phe Tyr Thr Ile Leu Thr Pro Met Leu Asn Pro Leu Ile
                           280
Tyr Ser Leu Arg Asn Lys Asp Val Thr Gly Ala Leu Gln Lys Val Val
                       295
                                           300
Gly Arg Cys Val Ser Ser Gly Lys Val Thr Thr Phe Lys Gln Ile Ala
                   310
                                      315
Tyr Ala Ala Arg Asp Leu Lys Xaa Arg Ile Gln Asp Phe Ile Ile Ala
                                  330
               325
Leu Glu Phe Lys Tyr Ser Leu Pro Gly Asn Lys Xaa Pro
                               345
           340
<210> 1546
<211> 319
<212> PRT
<213> Unknown (H38g463 protein)
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<223> Xaa = Any Amino Acid
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Leu Ser Tyr Phe Ser Asn Glu His Tyr Leu Leu Phe Val Ala Leu Ala
                               25
Ile Ile Cys Gln Val Phe Leu Val Arg Ser Gly Asp Ile Leu Leu Ala
 · 35
                           40
Ile Gly Thr Val Ile Lys Leu His Thr Thr Met Tyr Tyr Phe Leu Ala
Asn Val Ser Ile Leu Asp Ile Leu Cys Ser Ser Ala Thr Ile Pro Lys
                   70
                                       75
Met Pro Lys Ile Leu Xaa Thr Glu Asp His Ser Ile Ser Phe Val Arg
                                   90
               85
Xaa Ala Leu Gln Pro Tyr Phe Leu Val Ala Trp Ala Gly Lys Lys Cys
                               105
                                                   110
           100
Phe Leu Thr Val Thr Ala Tyr Asp Trp Cys Val Val Thr Cys Phe Ser
                                               125
                           120
       115
Leu Cys Tyr Ile Leu Ile Met Asn Lys Leu Val Ser Val Gln Leu Val
                                           140
                       135
   130
Tyr Gly Thr Xaa Ala Ala Gly Phe Leu Asn Phe Leu Leu Leu His Val
                                      155
                  150
Val Ser Thr Leu Cys Leu Ser Phe Cys Lys Pro Asp Arg Val Asn Gln
                                   170
              165
Tyr Tyr Cys Asp Ile Ser Pro Met Gly Ala Leu Leu Cys Gln Ser Met
                               185
                                                   190
           180
His Leu Ala Asn Met Leu Val Leu Val Glu Ser Val Ile Leu Gly Ile
                                               205
       195
                           200
Ser Ala Phe Leu Ala Ala Phe Asn Phe Tyr Ile Tyr Ile Ile Ser Thr
                                           220
                       215
Ile Leu Lys Ile Gln Cys Val Glu Trp Ser Ala Lys Cys Phe Ser Thr
                   230
                                       235
Cys Thr Ser His Leu Leu Thr Val Cys Leu Phe Tyr Gly Ile Leu Thr
                                   250
               245
Phe Thr Tyr Ile Tyr Ser Phe Ser Ser His Thr His Met Ser Lys Ala
                                                   270
                               265
           260
Ser Pro Asp Leu Ala Thr Asp Arg Leu Ile Ser Met Leu Tyr Arg Val
                                              285
                          280
Ile Thr Leu Met Phe Asn Phe Ile Thr Asp Asn Leu Arg Asn Thr Glu
```

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300
                       295
Val Lys Gly Ala Ser Glu Arg Phe Tyr Val Ile Glu His Val Tyr
                   310
<210> 1547
<211> 280
<212> PRT
<213> Unknown (H38g464 protein)
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<400> 1547
Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Met Leu Leu Ile
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Gln Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser His
           20
                                25
Leu Ala Leu Thr Tyr Phe Ser Phe Ser Ser Val Thr Val Pro Lys Met
                            40
Leu Met Asp Met Arg Thr Lys Tyr Lys Ser Ile Leu Tyr Glu Glu Cys
                        55
Ile Ser Gln Met Tyr Phe Phe Ile Phe Phe Thr Asp Leu Asp Ser Phe
                                        75
                   70
Leu Ile Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro
                                    90
                85
Leu His Tyr Thr Val Ile Met Arg Glu Glu Leu Cys Val Phe Leu Val
           100
                                105
Ala Val Ser Trp Ile Leu Ser Cys Ala Ser Ser Leu Ser His Thr Leu
                           120
                                                125
Leu Leu Thr Arg Leu Ser Phe Cys Ala Ala Asn Thr Ile Pro His Val
                       135
                                            140
Phe Cys Asp Leu Ala Ala Leu Leu Lys Leu Ser Cys Ser Asp Ile Phe
                                       155
                   150
Leu Asn Glu Leu Val Met Phe Thr Val Gly Val Val Val Ile Thr Leu
                                                        175
                                    170
               165
Pro Phe Met Cys Ile Leu Val Ser Tyr Gly Tyr Ile Gly Ala Thr Ile
           180
                                185
Leu Arg Val Pro Ser Thr Lys Gly Ile His Lys Ala Leu Ser Thr Cys
                           200
                                                205
Gly Ser His Leu Ser Val Val Ser Leu Tyr Tyr Gly Ser Ile Phe Gly
                        215
                                            220
Gln Tyr Leu Phe Pro Thr Val Ser Ser Ser Ile Asp Lys Asp Val Ile
                   230
                                       235
Val Ala Leu Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile
                                   250
                245
Tyr Ser Ile Arg Asn Arg Asp Met Lys Glu Ala Leu Gly Lys Leu Phe
                           265
           260
Ser Arg Ala Thr Phe Phe Ser Trp
      275
<210> 1548
<211> 303
<212> PRT
<213> Unknown (H38g465 protein)
<223> Synthetic construct
<221> VARIANT
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<223> Xaa = Any Amino Acid
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Met Asn Ser Ser Ser Asp Xaa Arg Gln Pro Val Met Asp Gly Val Asn
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                -5
Asp Ser Ser Leu Gln Gly Phe Val Leu Met Gly Ile Ser Asp His Pro
Gln Leu Glu Met Ile Phe Phe Ile Ala Ile Leu Phe Ser Tyr Leu Leu
                            40
Thr Leu Leu Gly Asn Ser Thr Ile Ile Leu Leu Ser Arg Leu Glu Ala
                        55
Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn Leu Ser Ser Leu
                   70
Asp Leu Ala Phe Ala Thr Ser Ser Val Pro Gln Met Leu Ile Asn Leu
                                   90
Trp Gly Pro Gly Lys Thr Ile Ser Tyr Gly Gly Cys Ile Thr Gln Leu
           100
                               105
Tyr Val Phe Leu Trp Leu Gly Ala Thr Glu Cys Ile Leu Leu Val Val
                           120
                                                125 -
       115
Met Ala Phe Asp Arg Tyr Val Ala Val Cys Arg Pro Leu Arg Tyr Thr
                        135
Ala Ile Met Asn Pro Gln Leu Cys Trp Leu Leu Ala Val Ile Ala Cys
                                        155
                   150
Leu Gly Gly Leu Gly Asn Ser Val Ile Gln Ser Thr Phe Thr Leu Gln
                                   170
               165
Leu Pro Leu Cys Gly His Arg Arg Val Glu Gly Phe Leu Cys Glu Val
           180
                                185
                                                   190
Pro Ala Met Ile Lys Leu Ala Cys Gly Asp Thr Ser Leu Asn Gln Ala
                                               205
                           200
Val Leu Asn Gly Val Cys Thr Phe Phe Thr Ala Val Pro Leu Ser Ile
                                            220
                        215
Ile Val Ile Ser Tyr Cys Leu Ile Ala Gln Ala Val Leu Lys Ile Arg
                                        235
                   230
Ser Ala Glu Gly Arg Arg Lys Ala Phe Asn Thr Cys Leu Ser His Leu
                                   250
               245
Leu Val Val Phe Leu Phe Tyr Gly Ser Ala Ser Tyr Gly Tyr Leu Leu
                                                    270
                               265
Pro Ala Lys Asn Ser Lys Gln Asp Gln Gly Lys Phe Ile Ser Leu Phe
                                               285
                           280
Tyr Ser Leu Val Thr Pro Met Val Asn Pro Leu Ile Tyr Thr Leu
                        295
   290
<210> 1549
<211> 309
<212> PRT
<213> Unknown (H38g466 protein)
<220>
<223> Synthetic construct
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Thr Thr Asp Pro Gly Met Gln Leu Gly Leu Phe Val Val Phe Leu Gly
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                               25
Val Tyr Cys Leu Thr Val Val Gly Ser Ser Thr Leu Ile Val Leu Ile
```

35 40 45
Cys Asn Asp Ser His Leu His Thr Pro Met Tyr Phe Val Ile Gly Asn

```
60
                       55
Leu Ser Phe Leu Asp Leu Trp Tyr Ser Ser Val Tyr Thr Pro Lys Ile
                                      75
                  70
Leu Val Thr Cys Ile Ser Glu Asp Lys Ser Ile Ser Phe Ala Gly Cys
                                   90
               85
Leu Cys Gln Phe Phe Ser Ala Arg Leu Ala Tyr Ser Glu Cys Tyr Leu
                                                   110
                               105
Leu Ala Ala Met Ala Tyr Asp His Tyr Val Ala Ile Ser Lys Pro Leu
                          120
                                               125
Leu Tyr Ala Gln Thr Met Pro Arg Arg Leu Cys Ile Cys Leu Val Leu
                                           140
                       135
Tyr Ser Tyr Thr Gly Gly Phe Val Asn Ala Ile Ile Leu Thr Ser Asn
                                       155
                   150
Thr Phe Thr Leu Asp Phe Cys Gly Asp Asn Val Ile Asp Asp Phe Phe
               165
                                   170
Cys Asp Val Pro Pro Leu Val Lys Leu Ala Cys Ser Arg Glu Ser Tyr
                                                   190
                               185
           180
Gln Ala Val Leu His Phe Leu Leu Ala Ser Asn Val Ile Ser Pro Thr
                                               205
                            200
Val Leu Ile Leu Ala Ser Tyr Leu Ser Ile Ile Thr Thr Ile Leu Arg
                                           220
                        215
Ile His Ser Thr Gln Gly Arg Ile Lys Val Phe Ser Thr Cys Ser Ser
                                       235
                    230
His Leu Ile Ser Val Thr Leu Tyr Tyr Gly Ser Ile Leu Tyr Asn Tyr
                                   250
               245
Ser Arg Pro Ser Ser Ser Tyr Ser Leu Lys Arg Asp Lys Met Val Ser
                               265
           260
Thr Phe Tyr Thr Met Leu Phe Pro Met Leu Asn Pro Met Ile Tyr Ser
                           280
                                               285
       275
Leu Arg Asn Lys Asp Met Lys Asp Ala Leu Lys Lys Phe Phe Lys Ser
                        295
                                            300
Ala Xaa Ser Lys Val
<210> 1550
<211> 312
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<220>
<223> Synthetic construct
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Ile Ser Asp His Pro Gln Leu Glu Met Ile Phe Phe Ile Ala Ile Leu
            20
                                25
Phe Ser Tyr Leu Leu Thr Leu Leu Gly Asn Ser Thr Ile Ile Leu Leu
                           40
Ser Arg Leu Glu Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                       55
Asn Leu Ser Ser Leu Asp Leu Ala Phe Ala Thr Ser Ser Val Pro Gln
                                        75
                    70
Met Leu Ile Asn Leu Trp Gly Pro Gly Lys Thr Ile Ser Tyr Gly Gly
                                   90
Cys Ile Thr Gln Leu Tyr Val Phe Leu Trp Leu Gly Ala Thr Glu Cys
                               105
Ile Leu Leu Val Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Arg
                                                125
                           120
Pro Leu Arg Tyr Thr Ala Ile Met Asn Pro Gln Leu Cys Trp Leu Leu
```

135

```
Ala Val Ile Ala Trp Leu Gly Gly Leu Gly Asn Ser Val Ile Gln Ser
                                        155
                    150
Thr Phe Thr Leu Gln Leu Pro Leu Cys Gly His Arg Arg Val Glu Gly
                                    170
                165
Phe Leu Cys Glu Val Pro Ala Met Ile Lys Leu Ala Cys Gly Asp Thr
                                                    190
                                185
            180
Ser Leu Asn Gln Ala Val Leu Asn Gly Val Cys Thr Phe Phe Thr Ala
                            200
                                                205
Val Pro Leu Ser Ile Ile Val Ile Ser Tyr Cys Leu Ile Ala Gln Ala
                                            220
                        215
Val Leu Lys Ile His Ser Ala Glu Gly Arg Arg Lys Ala Phe Asn Thr
                    230
                                        235
Cys Leu Ser His Leu Leu Val Val Phe Leu Phe Tyr Gly Ser Ala Ser
                                    250
               245
Tyr Gly Tyr Leu Leu Pro Ala Lys Asn Ser Lys Gln Asp Gln Gly Lys
                                                    270
            260
                                265
Phe Ile Ser Leu Phe Tyr Ser Leu Val Thr Pro Met Val Asn Pro Leu
                                                285
        275
                            280
Ile Tyr Thr Leu Arg Asn Met Glu Val Lys Gly Ala Leu Arg Arg Leu
                     295
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Leu Gly Lys Gly Arg Glu Val Gly
                    310
<210> 1551
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Val Leu Ile Phe Tyr Val Pro Met Val Ser Val Ser Met Val His Arg
                                25
            20
Phe Gly Arg His Ala Pro Glu Tyr Val His Lys Phe Met Ser Phe Val
                            40
Pro Pro Met Leu Tyr Pro Ile Ile Tyr Ser Ile Lys Thr Lys Glu Ile
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                       55
Arg Arg Arg Leu His Lys Met Leu Leu Gly Ala Lys Phe Xaa Ser Arg
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Lys Thr
<210> 1552
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<223> Synthetic construct
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Met Glu Val Gly Asn Cys Thr Ile Leu Thr Glu Phe Ile Leu Leu Gly
                                    10
Phe Ser Ala Asp Ser Gln Trp Gln Pro Ile Leu Phe Gly Val Phe Leu
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25
Met Leu Tyr Leu Ile Thr Leu Ser Gly Asn Met Thr Leu Val Ile Leu
                            40
Ile Arg Thr Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Ile Gly
                        55
Asn Leu Ser Phe Leu Asp Phe Trp Tyr Thr Ser Val Tyr Thr Pro Lys
                                        75
Ile Leu Ala Ser Cys Val Ser Glu Asp Lys Arg Ile Ser Leu Ala Gly
                85
                                    90
Cys Gly Ala Gln Leu Phe Phe Ser Cys Val Val Ala Tyr Thr Glu Cys
                                105
Tyr Leu Leu Ala Ala Met Ala Tyr Asp Arg His Ala Ala Ile Cys Asn
                            120
Pro Leu Leu Tyr Ser Gly Thr Met Ser Thr Ala Leu Cys Thr Gly Leu
                        135
                                            140
Val Ala Gly Ser Tyr Ile Gly Gly Phe Leu Asn Ala Ile Ala His Thr
                    150
                                        155
Ala Asn Thr Phe Arg Leu His Phe Cys Gly Lys Asn Ile Ile Asp His
                                    170
               165
Phe Phe Cys Asp Ala Pro Pro Leu Val Lys Met Ser Cys Thr Asn Thr
            180
                                185
Arg Val Tyr Glu Lys Val Leu Leu Gly Val Val Gly Phe Thr Val Leu
        195
                            200
Ser Ser Ile Leu Ala Ile Leu Ile Ser Tyr Val Asn Ile Leu Leu Ala
                        215
Ile Leu Arg Ile His Ser Ala Ser Gly Arg His Lys Ala Phe Ser Thr
                    230
                                        235
Cys Ala Ser His Leu Ile Ser Val Met Leu Phe Tyr Gly Ser Leu Leu
                245
                                    250
Phe Met Tyr Ser Arg Pro Ser Ser Thr Tyr Ser Leu Glu Arg Asp Lys
            260
                                265
Val Ala Ala Leu Phe Tyr Thr Val Ile Asn Pro Leu Leu Asn Pro Leu
                            280
                                                285
Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Glu Ala Phe Arg Lys Ala .
                       295
Thr Gln Thr Ile Gln Pro Gln Thr
<210> 1553
<211> 318
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<400> 1553
Met Pro Thr Val Asn His Ser Gly Thr Ser His Thr Val Phe His Leu
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Leu Gly Ile Pro Gly Leu Gln Asp Gln His Met Trp Ile Ser Ile Pro
                                25
Phe Phe Ile Ser Tyr Val Thr Ala Leu Leu Gly Asn Ser Leu Leu Ile
                            40
Phe Ile Ile Leu Thr Lys Arg Ser Leu His Glu Pro Met Tyr Leu Phe
                        55
                                            60
Leu Cys Met Leu Ala Gly Ala Asp Ile Val Leu Ser Thr Cys Thr Ile
                    70
                                        75
Pro Gln Ala Leu Ala Ile Phe Trp Phe Arg Ala Gly Asp Ile Ser Leu
               85
                                   90
Asp Arg Cys Ile Thr Gln Leu Phe Phe Ile His Ser Thr Phe Ile Ser
                               105
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Glu Ser Gly Ile Leu Leu Val Met Ala Phe Asp His Tyr Ile Ala Ile
                           120
Cys Tyr Pro Leu Arg Tyr Thr Thr Ile Leu Thr Asn Ala Leu Ile Lys
                       135
                                           140
Lys Ile Cys Val Thr Val Ser Leu Arg Ser Tyr Gly Thr Ile Phe Pro
                                        155
                   150
Ile Ile Phe Leu Leu Lys Arg Leu Thr Phe Cys Gln Asn Asn Ile Ile
                                   170
               165
Pro His Thr Phe Cys Glu His Ile Gly Leu Ala Lys Tyr Ala Cys Asn
           180
                               185
Asp Ile Arg Ile Asn Ile Trp Tyr Gly Phe Ser Ile Leu Met Ser Thr
                        200
      195
Val Val Leu Asp Val Val Leu Ile Phe Ile Ser Tyr Met Leu Ile Leu
                                           220
                       215
His Ala Val Phe His Met Pro Ser Pro Asp Ala Cys His Lys Ala Leu
                                       235
                   230
Asn Thr Phe Gly Ser His Val Cys Ile Ile Ile Leu Phe Tyr Gly Ser
               245
                                   250
Gly Ile Phe Thr Ile Leu Thr Gln Arg Phe Gly Arg His Ile Pro Pro
                               265
Cys Ile His Ile Pro Leu Ala Asn Val Cys Ile Leu Ala Pro Pro Met
                           280
                                                285
Leu Asn Pro Ile Ile Tyr Gly Ile Lys Thr Lys Gln Ile Gln Glu Gln
                       295
Val Val Gln Phe Leu Phe Ile Lys Gln Lys Ile Thr Leu Val
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<223> Synthetic construct
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Met Glu Ala Ala Asn Glu Ser Ser Glu Gly Ile Ser Phe Val Leu Leu
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Gly Leu Thr Thr Ser Pro Gly Gln Gln Arg Pro Leu Phe Val Leu Phe
                               25
Leu Leu Leu Tyr Val Ala Ser Leu Leu Gly Asn Gly Leu Ile Val Ala
                           40
Ala Ile Gln Ala Ser Pro Ala Leu His Ala Pro Met Tyr Phe Leu Leu
                       55
Ala His Leu Ser Phe Ala Asp Leu Cys Phe Ala Ser Val Thr Val Pro
                                       75
Lys Met Leu Ala Asn Leu Leu Ala His Asp His Ser Ile Ser Leu Ala
                                   90
Gly Cys Leu Thr Gln Met Tyr Phe Phe Phe Ala Leu Gly Val Thr Asp
                               105
Ser Cys Leu Leu Ala Ala Met Ala Tyr Asp Cys Tyr Val Ala Ile Arg
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150 155 Ile Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Ser His Gln Val Pro 165 170 His Phe Phe Cys Asp His Gln Pro Leu Leu Arg Leu Ser Cys Ser Asp 185

Leu Val Gly Met Ala Trp Leu Val Ser His Val His Ser Leu Leu Tyr

120 His Pro Leu Pro Tyr Ala Thr Arg Met Ser Arg Ala Met Cys Ala Ala

135

Thr His His Ile Gln Leu Leu Ile Phe Thr Glu Gly Ala Ala Val Val

125

140

```
195
                            200
                                                205
Val Thr Pro Phe Leu Leu Ile Leu Ala Ser Tyr Gly Ala Ile Ala Ala
                       215
                                           220
Ala Val Leu Gln Leu Pro Ser Ala Ser Gly Arg Leu Arg Ala Val Ser
                   230
                                       235
Thr Cys Gly Ser His Leu Ala Val Val Ser Leu Phe Tyr Gly Thr Val
                                   250
Ile Ala Val Tyr Phe Gln Ala Thr Ser Arg Arg Glu Ala Glu Trp Gly
            260
                               265
Arg Val Ala Thr Val Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro
                           280
                                                285
Ile Ile Tyr Ser Leu Trp Asn Arg Asp Val Gln Gly Ala Leu Arg Ala
                       295
                                            300
Leu Leu Ile Gly Arg Arg Ile Ser Ala Ser
                    310
<210> 1555
<211> 316
<212> PRT
<213> Unknown (H38g472 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(316)
<223> Xaa = Any Amino Acid
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                                25
Ile Pro Ile Asn Leu Phe Cys Val Val Ser Ile Leu Gly Asn Asn Ile
                            40
                                                45
Ile Leu Phe Leu Ile His Thr Asp Pro Ala Leu His Glu Pro Met Tyr
                       55
                                            60
Ile Phe Leu Ser Met Leu Ala Ala Ser Asp Leu Gly Leu Cys Ala Ser
                   70
                                       75
Thr Phe Pro Thr Met Val Arg Leu Phe Trp Leu Gly Ala Arg Glu Leu
                                    90
               85
Pro Phe Asp Leu Cys Ala Ala Gln Met Phe Phe Ile His Thr Phe Thr
            100
                                105
Tyr Val Glu Ser Gly Val Leu Leu Ala Met Ala Phe Asp Arg Phe Ile
                            120
                                                125
Ala Ile Arg Asp Pro Leu His Tyr Ala Ile Ile Ile Thr Cys Ser Val
                        135
                                            140
Thr Ala Glu Val Gly Thr Ala Ile Leu Val Arg Ala Val Leu Leu Asn
                   150
                                       155
Leu Pro Gly Pro Ile Leu Leu Gln Gln Leu Leu Phe Pro Lys Ile Ser
                                   170
               165
Ala Leu Cys His Cys Tyr Cys Leu His Cys Asp Leu Val Gly Leu Ala
           180
                               185
Cys Ser Asp Thr Gln Ile Asn Ser Leu Val Gly Leu Val Ser Ile Leu
                           200
Phe Ser Leu Cys Leu Asp Ser Phe Leu Ile Met Leu Ser Tyr Ala Leu
                       215
                                            220
Ile Leu Xaa Thr Val Leu Gly Ile Ala Ser Pro Gly Glu Arg Leu Lys
                   230
                                       235
Ala Leu Asn Thr Cys Val Ser His Leu Cys Ile Val Leu Ile Phe Tyr
                                    250
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Leu Pro Ile Ile Gly Leu Ser Val Leu His Arg Val Lys Lys His Asp 260 265 Tyr Pro Ala Leu Ala Val Leu Met Ala Asn Leu His Phe Leu Val Pro 280 275 285 Pro Phe Met Asn Pro Ile Val Tyr Cys Ile Lys Ser Arg Gln Ile Arg 295 300 Gln Ser Leu Leu Lys His Phe Gln Gln Lys Arg Ile 310 <210> 1556 <211> 320 <212> PRT <213> Unknown (H38g473 protein) <223> Synthetic construct <221> VARIANT <222> (1)...(320) <223> Xaa = Any Amino Acid <400> 1556 His Thr Glu Pro Trp Asn Leu Thr Gly Val Xaa Glu Phe Leu Leu 1 5 10 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Ser 25 Arg Ser Met Tyr Leu Val Met Val Leu Arg Asn Leu Leu Ile Ile Leu Ala Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu 60 Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Ser Ala Met Val Pro 70 75 Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr Ala 90 Gly Cys Leu Thr Arg Met Ser Phe Leu Val Leu Phe Ala Cys Ile Glu 105 Asp Met Leu Leu Thr Ala Met Ala Tyr Asp Cys Phe Val Ala Ile Cys 120 125 Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Ser Val Phe 135 140 Leu Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His 155 150 Ser Xaa Ile Val Leu Gln Phe Thr Phe Phe Lys Asn Val Glu Ile Ser 165 170 175 Asn Phe Val Cys Glu Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp 185 180 190 Ser Val Ile Asn Ser Ile Phe Leu Tyr Phe Asp Ser Thr Met Phe Gly 200 205 Phe Leu Pro Ile Ser Arg Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro 220 215 Ser Ile Leu Arg Ile Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser 230 235 Thr Cys Gly Ser His Leu Ala Val Cys Leu Phe Tyr Gly Thr Gly 245 250 Ile Gly Val Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg Ser Gly 260 265 270 Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu Asn Pro 280 285 Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu Trp Arg 295 Leu Arg Ser Arg Thr Val Glu Ser His Asp Leu Phe His Pro Phe Ser

320

305 310 315 <210> 1557 <211> 329 <212> PRT <213> Unknown (H38g474 protein) <220> <223> Synthetic construct <221> VARIANT <222> (1)...(329) <223> Xaa = Any Amino Acid <400> 1557 Met Lys Leu Ile Asn His Thr Asp Gln Asn Pro Thr Ser Phe Leu Leu 10 Met Gly Ile Pro Gly Pro Glu Ala Ser His Phe Trp Ile Ala Phe Pro 20 25 Phe Cys Ser Met Tyr Ala Leu Ala Val Leu Gly Asn Met Val Val Leu 45 40 Leu Val Val His Ser Glu Pro Val Leu His Gln Pro Met Tyr Leu Phe 55 60 Leu Cys Met Leu Ser Thr Ile Asp Leu Val Leu Cys Thr Ser Thr Val 70 75 Pro Lys Leu Leu Ala Leu Phe Trp Ala Lys Asp Ala Glu Ile Asn Phe 90 Gly Ala Cys Ala Ala Gln Met Phe Phe Ile His Gly Phe Ser Ala Val 105 Glu Ser Gly Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Leu Ala Ile 115 120 125 Cys Trp Pro Leu His Tyr Gly Ser Leu Leu Ser Pro Glu Ser Val Gly 135 140 Lys Leu Gly Ala Ala Ala Val Leu Arg Gly Leu Gly Leu Met Thr Pro 155 150 Leu Thr Cys Leu Leu Ala Arg Leu Ser Tyr Cys Ser Arg Val Val Ala 170 His Ser Tyr Cys Glu His Met Ala Val Lys Leu Ala Cys Gly Gly 185 Thr Gln Pro Asn Asn Ile Tyr Gly Ile Thr Ala Ala Thr Leu Val Val 200 205 Gly Thr Asp Ser Ile Cys Ile Ala Val Ser Tyr Ala Leu Ile Leu Arg 215 220 Ala Val Leu Gly Leu Ser Ser Lys Glu Ala Arg Ala Lys Thr Phe Gly 230 235 Thr Cys Gly Ser His Leu Gly Val Ile Leu Leu Phe Tyr Thr Pro Gly 250 245 Leu Phe Ser Phe Tyr Thr Gln Arg Phe Gly Gln His Val Pro Arg His 265 Ile His Ile Leu Leu Ala Asp Leu Tyr Leu Val Val Pro Pro Met Leu 275 280 285 Asn Pro Ile Ile Tyr Gly Met Lys Thr Lys Gln Ile Trp Asp Gly Ala 295 300 Leu Arg Leu Leu Lys Trp Gly Pro Ala Gln Ser Xaa Ser Leu Gln Pro 310 315 His Pro Glu Thr Phe Ile Phe Phe Ala 325 <210> 1558 <211> 330 <212> PRT

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<213> Unknown (H38g475 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(330)
<223> Xaa = Any Amino Acid
<400> 1558
His Thr Glu Pro Arg His Leu Thr Gly Val Xaa Glu Phe Leu Leu Val
                                    10
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Gly Gly Val Ser
                                25
Leu Ser Met Tyr Gly Val Thr Val Ile Arg Asn Val Leu Ile Ile Leu
                            40
Gly Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
                        55
Ser Asn Val Trp Trp Ala Asp Ile Ser Phe Thr Ser Ala Gly Val Pro
                    70
Lys Met Thr Val Asp Met Gln Ser His Ser Arg Val Ile Tyr Tyr Ala
               85
                                    90
                                                       95
Gly Cys Met Thr Arg Met Ser Phe Phe Val Leu Leu Ala Cys Ile Glu
          100
                                105
                                                    110
Asp Met Leu Val Cys Val Met Ala Xaa Glu Cys Phe Val Ala Met Cys
                            120
                                                125
Arg Pro Val Gln Tyr Thr Val Ile Val Asn Pro His Leu Cys Val Phe
                                         140
Arg Val Gly Val Ser Phe Leu Gln Ser Val Leu Tyr Ser Gln Val His
145.
                    150
                                        155
Arg Xaa Ser Val Ser Gln Phe Thr Phe Phe Lys Asn Val Glu Ile Ser
                                    170
His Phe Val Cys Glu Pro Ser Gln Phe Leu His Phe Ala Cys Cys Asp
                                185
Ser Phe Ile Lys Ser Ile Phe Met Tyr Phe Asp Ser Asn Met Phe Gly
                            200
                                                205
Phe Leu Pro Ile Thr Gly Ile Phe Leu Ser Xaa Tyr Lys Ser Val Pro
                        215
                                            220
Ser Ile Ile Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser
                    230
                                        235
Thr Cys Gly Ser His Val Ala Val Val Cys Leu Leu Tyr Gly Thr Gly
                245
                                    250
Ile Gly Val Tyr Met Thr Ser Gly Val Ala Pro Pro Pro Ser Asn Gly
            260
                                265
                                                    270
Val Val Ala Ser Val Lys Tyr Ala Val Val Thr Pro Met Leu Thr Pro
       275
                            280
                                                285
Phe Ile Tyr Ser Val Arg Asn Arg Asp Ile Gln Ser Pro Leu Trp Ser
                       295
                                            300
Val Cys Ser Ser Thr Val Lys Ser Phe Asp Val Ser His Leu Phe Cys
                   310
Val Trp Val Arg Lys Gly Thr His Ile Lys
                325
<210> 1559
<211> 170
<212> PRT
<213> Unknown (H38g476 protein)
<220>
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<223> Synthetic construct

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<221> VARIANT
 <222> (1)...(170)
<223> Xaa = Any Amino Acid
<400> 1559
His Thr Gln Pro Arg Gly Leu Thr Arg Val Xaa Glu Phe Leu Leu
                                    10
Gly Leu Ser Gln Asp Pro Gln Leu Gln Pro Val Leu Ser Gly Leu Ser
            20
                                25
Leu Cys Met Cys Leu Gly Thr Gln Leu Gly Asn Leu Leu Ile Ile Leu
                            40
                                                 45
Gly Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Ser Phe Leu
                        55
                                            60
Ser Asn Leu Ser Gly Ala Asp Ile Ser Phe Thr Ser Thr Thr Gly Pro
                                        75
Lys Leu Ile Val Asp Ile His Ser Tyr Thr Arg Asp Ile Ser Tyr Ala
                                    90
Arg Cys Leu Thr His Thr Pro Leu Phe Ala Ile Phe Gly Gly Val Glu
            100
                                105
                                                    110
Arg Asp Met Leu Leu Arg Val Met Gly Tyr Asp Arg Val Val Asp Ile
        115
                            120
                                                125
Cys Asp Pro Leu Tyr His Ser His Ala Met Asn Pro Cys Val Cys Gly
                       135
                                            140
Ser Leu Asp Leu Trp Ser Leu Phe Phe Leu Thr Leu Leu Tyr Thr His
                   150
                                        155
Leu His Asn Ser Ile Ala Leu His Met Thr
               165
<210> 1560
<211> 322
<212> PRT
<213> Unknown (H38g477 protein)
<220>
<223> Synthetic construct
<400> 1560
Met Asn Glu Thr Asn His Ser Trp Val Thr Glu Phe Val Leu Leu Gly
                                    10
Leu Ser Ser Ser Arg Glu Leu Gln Pro Phe Leu Phe Leu Ile Phe Ser
            20
                                25
Leu Leu Tyr Leu Ala Ile Leu Leu Gly Asn Phe Leu Ile Ile Leu Thr
                            40
Val Thr Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ala
                        55
                                            60
Asn Leu Ser Phe Ile Asp Val Cys Val Ala Ser Ser Ala Thr Pro Lys
                                        75
Met Ile Ala Asp Phe Leu Val Glu His Lys Thr Ile Ser Phe Asp Ala
                                    90
Arg Leu Ala Gln Ile Phe Phe Val His Leu Phe Thr Gly Ser Glu Met
           100
                                105
Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
                           120
Pro Pro His Tyr Met Thr Ile Met Ser Cys Cys Val Cys Val Val Leu
                       135
                                            140
Phe Leu Ile Ser Trp Phe Val Gly Phe Ile His Thr Thr Ser Gln Leu
                   150
                                        155
Ala Phe Thr Val Asn Leu Pro Phe Cys Gly Pro Asn Lys Val Asp Ser
```

170

Phe Phe Cys Asp Leu Pro Leu Val Thr Lys Leu Ala Cys Ile Asp Thr 180 185 190

```
Tyr Val Val Ser Leu Leu Ile Val Ala Asp Ser Gly Phe Leu Ser Leu
                           200
Ser Ser Phe Leu Leu Val Val Ser Tyr Thr Val Ile Leu Val Thr
                      215
                                          220
Val Arg Asn Ser Ser Ser Val Ser Met Val Lys Ala Cys Ser Thr Leu
                  230
                                      235
Thr Ala His Ile Thr Val Val Thr Leu Phe Phe Gly Pro Cys Ile Phe
                                  250
              245
Ile Tyr Val Trp Pro Phe Ser Ser Tyr Ser Val Asp Lys Val Leu Ala
                               265
           260
Val Phe Tyr Thr Ile Phe Thr Ser Ile Leu Asn Pro Val Ile Tyr Met
                          280
                                               285
      275
Leu Arg Asn Lys Glu Val Lys Ala Ala Met Ser Lys Leu Lys Ser Arg
                      295
                                       300
Tyr Gln Lys Leu Gly Gln Val Ser Val Val Ile Arg Asn Val Leu Phe
                                       315
305
                   310
Leu Glu
```

<210> 1561

<211> 314 <212> PRT

<213> Unknown (H38g478 protein)

<220>

<223> Synthetic construct

<400> 1561

Met Glu Gly Phe Asn Tyr Ser Arg Val Ser Glu Phe Met Leu Leu Gly 10 5 Leu Thr Asp Ser Pro Glu Leu Gln Ile Phe Phe Phe Val Val Phe Ser 25 30 Val Phe Tyr Leu Met Thr Met Leu Gly Asn Cys Leu Ile Leu Leu Thr 40 45 Val Leu Ser Thr Ser His Leu His Ser Arg Thr Tyr Phe Leu Leu Ser 60 55 Asn Leu Ser Ile Asp Met Cys Leu Ser Ser Phe Ala Thr Pro Lys Met 75 Ile Met Asp Phe Phe Ala Leu Arg Lys Thr Ile Ser Phe Glu Gly Cys 90 85 Ile Ser Gln Ile Phe Phe Leu His Leu Phe Asn Gly Thr Glu Ile Val 105 100 Leu Leu Ile Ser Met Ser Phe Asp Arg Tyr Ile Ala Ile Cys Lys Pro 120 125 Leu Arg Tyr Ser Thr Ile Met Ser Gln Arg Val Cys Val Glu Leu Val 140 135 Ala Val Ser Cys Trp Thr Val Gly Phe Leu His Thr Met Ser Gln Leu 150 155 Val Phe Ala Leu Tyr Leu Pro Phe Cys Val Pro Asn Val Val Asp Ser 170 165 Phe Phe Cys Asp Leu Pro Leu Val Ile Gln Leu Ala Cys Ile Asp Ile 185 190 180 Tyr Val Leu Gly Thr Ser Met Ile Ser Thr Ser Gly Val Thr Ala Leu 205 200 Thr Ser Phe Leu Leu Leu Thr Ser Tyr Ile Ile Val Leu Asn Thr 215 220 Ile Arg Asp Tyr Ser Ser Thr Gly Ser Ser Lys Ala Leu Ser Thr Cys 235 230 Thr Ala His Phe Ile Val Val Leu Met Phe Phe Gly Pro Cys Ile Phe 245 250 Ile Tyr Val Trp Pro Ser Thr Asn Phe Leu Val Asp Lys Ile Leu Ser

```
270
           260
                                265
Val Phe Tyr Thr Ile Phe Thr Pro Phe Leu Asn Pro Leu Ile Tyr Thr
                                               285
                     280
Leu Arg Asn Gln Glu Val Lys Thr Ala Met Lys Lys Lys Leu Asn Ile
                       295
                                           300
Gln Tyr Phe Ser Leu Gly Lys Thr Ala Pro
                    310
<210> 1562
<211> 198
<212> PRT
<213> Unknown (H38g479 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(198)
<223> Xaa = Any Amino Acid
<400> 1562
Met Asn Pro Cys Leu Cys Gly Phe Arg Val Val Ser Phe Phe Phe
                                    10
His Ser Leu Leu Gly Ala Gln Val His Asn Leu Ser Ala Ser Gln Met
                                25
Thr Cys Phe Glu Tyr Val Glu Ile His Asn Phe Leu Trp Ala Leu Ser
                                                45
                            40
Gln Leu Pro His Arg Ala Trp Cys Asp Thr Phe Pro Asn Asn Ile Ile
                        55
Val Tyr Phe Pro Ala Ala Ile Phe Gly Phe Leu Pro Ile Ala Gly Thr
                                       75
Leu Phe Ser Xaa Tyr Glu Ser Val Ser Ser Ile Glu Arg Val Ser Ser
                85
                                   90
Xaa Gly Gly Glu Tyr Lys Ala Phe Pro Thr Cys Gly Ser His Leu Ser
           100
                               105
Val Val Cys Xaa Leu Tyr Gly Thr Gly Val Gly Gly His Leu Ser Ser
                           120
                                               125
Asp Val Ser Ser Ser Pro Arg Lys Ser Ala Val Ala Ser Val Met Tyr
                       135
                                           140
Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Met Arg Asn
                   150
                                       155
Arg Asp Thr Lys Ser Val Leu Arg Arg Pro His Gly Ser Thr Val Xaa
                                   170
                                                        175
               165
Phe Xaa Tyr Leu Leu Ile Cys Pro Ile Pro Phe Val Val Trp Val Lys
           180
                               185
                                                   190
Lys Gly Arg Lys Val Lys
       195
<210> 1563
<211> 314
<212> PRT
<213> Unknown (H38g480 protein)
<220>
<223> Synthetic construct
<400> 1563
Met Leu Gly Leu Asn Gly Thr Pro Phe Gln Pro Ala Thr Leu Gln Leu
                                  10
Thr Gly Ile Pro Gly Ile Gln Thr Gly Leu Thr Trp Val Ala Leu Ile
                               25
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Phe Cys Ile Leu Tyr Met Ile Ser Ile Val Gly Asn Leu Ser Ile Leu
                             40
 Thr Leu Val Phe Trp Glu Pro Ala Leu His Gln Pro Met Tyr Tyr Phe
 Leu Ser Met Leu Ala Leu Asn Asp Leu Gly Val Ser Phe Ser Thr Leu
                     70
 Pro Thr Val Ile Ser Thr Phe Cys Phe Asn Tyr Asn His Val Ala Phe
                                     90
 Asn Ala Cys Leu Val Gln Met Phe Phe Ile His Thr Phe Ser Phe Met
            100
                                 105
 Glu Ser Gly Ile Leu Leu Ala Met Ser Leu Asp Arg Phe Val Ala Ile
         115
                            120
                                                 125
 Cys Tyr Pro Leu Arg Tyr Val Thr Val Leu Thr His Asn Arg Ile Leu
                        135
                                             140
 Ala Met Gly Leu Gly Ile Leu Thr Lys Ser Phe Thr Thr Leu Phe Pro
                    150
                                         155
 Phe Pro Phe Val Val Lys Arg Leu Pro Phe Cys Lys Gly Asn Val Leu
                165
                                     170
His His Ser Tyr Cys Leu His Pro Asp Leu Met Lys Val Ala Cys Gly
            180
                                185
Asp Ile His Val Asn Asn Ile Tyr Gly Leu Leu Val Ile Ile Phe Thr
        195
                            200
                                                 205
Tyr Gly Met Asp Ser Thr Phe Ile Leu Leu Ser Tyr Ala Leu Ile Leu
                        215
                                             220
Arg Ala Met Leu Val Ile Ile Ser Gln Glu Gln Arg Leu Lys Ala Leu
                    230
                                         235
Asn Thr Cys Met Ser His Ile Cys Ala Val Leu Ala Phe Tyr Val Pro
                245
                                     250
Ile Ile Ala Val Ser Met Ile His Arg Phe Trp Lys Ser Ala Pro Pro
                                265
                                                     270
Val Val His Val Met Met Ser Asn Val Tyr Leu Phe Val Pro Pro Met
                            280
                                                 285
Leu Asn Pro Ile Ile Tyr Ser Val Lys Thr Lys Glu Ile Arg Lys Gly
                        295
Ile Leu Lys Phe Phe His Lys Ser Gln Ala
                    310
<210> 1564
<211> 312
<212> PRT
<213> Unknown (H38g481 protein)
<220>
<223> Synthetic construct
<400> 1564
Met Gly Leu Phe Asn Val Thr His Pro Ala Phe Phe Leu Leu Thr Gly
                5
                                    10
Ile Pro Gly Leu Glu Ser Ser His Ser Trp Leu Ser Gly Pro Leu Cys
            20
                                25
Val Met Tyr Ala Val Ala Leu Gly Gly Asn Thr Val Ile Leu Gln Ala
                            40
                                                45
Val Arg Val Glu Pro Ser Leu His Glu Pro Met Tyr Tyr Phe Leu Ser
                        55
                                            60
Met Leu Ser Phe Ser Asp Val Ala Ile Ser Met Ala Thr Leu Pro Thr
                    70
                                        75
Val Leu Arg Thr Phe Cys Leu Asn Ala Arg Asn Ile Thr Phe Asp Ala
                85
                                    90
Cys Leu Ile Gln Met Phe Leu Ile His Phe Phe Ser Met Met Glu Ser
                                105
Gly Ile Leu Leu Ala Met Ser Phe Asp Arg Tyr Val Ala Ile Cys Asp
```

```
120
        115
Pro Leu Arg Tyr Ala Thr Val Leu Thr Thr Glu Val Ile Ala Ala Met
                      135
Gly Leu Gly Ala Ala Ala Arg Ser Phe Ile Thr Leu Phe Pro Leu Pro
                                       155
                   150
Phe Leu Ile Lys Arg Leu Pro Ile Cys Arg Ser Asn Val Leu Ser His
               165
                                   170
Ser Tyr Cys Leu His Pro Asp Met Met Arg Leu Ala Cys Ala Asp Ile
                               185
Ser Ile Asn Ser Ile Tyr Gly Leu Phe Val Leu Val Ser Thr Phe Gly
                          200
                                               205
Met Asp Leu Phe Phe Ile Phe Leu Ser Tyr Val Leu Ile Leu Arg Ser
                                           220
                       215
Val Met Ala Thr Ala Ser Arg Glu Glu Arg Leu Lys Ala Leu Asn Thr
                                       235
                   230
Cys Val Ser His Ile Leu Ala Val Leu Ala Phe Tyr Val Pro Met Ile
                                   250
               245
Gly Val Ser Thr Val His Arg Phe Gly Lys His Val Pro Cys Tyr Ile
           260
                               265
His Val Leu Met Ser Asn Val Tyr Leu Phe Val Pro Pro Val Leu Asn
                           280
Pro Leu Ile Tyr Ser Ala Lys Thr Lys Glu Ile Arg Arg Ala Ile Phe
                       295
                                            300
Arg Met Phe His His Ile Lys Ile
                   310
<210> 1565
<211> 156
<212> PRT
<213> Unknown (H38g482 protein)
<220>
<223> Synthetic construct
<400> 1565
Met Glu Ser Asn Gln Thr Trp Ile Thr Glu Val Ile Leu Leu Gly Phe
                                   10
Gln Val Asp Pro Ala Leu Glu Leu Phe Leu Phe Gly Phe Phe Leu Leu
           20
                               25
Phe Tyr Ser Leu Thr Leu Met Gly Asn Gly Ile Ile Leu Gly Leu Ile
                           40
Tyr Leu Asp Ser Arg Leu His Thr Pro Met Tyr Val Phe Leu Ser His
                       55
Leu Ala Ile Val Asp Met Ser Tyr Ala Ser Ser Thr Val Pro Lys Met
Leu Ala Asn Leu Val Met His Lys Lys Val Ile Ser Phe Ala Pro Cys
                                    90
Ile Leu Gln Thr Phe Leu Tyr Leu Ala Phe Ala Ile Thr Glu Cys Leu
            100
                               105
Ile Leu Val Met Met Cys Tyr Asp Arg Tyr Val Ala Ile Cys His Pro
       115
                           120
Leu Ala Tyr Thr Pro Ile Ile Met Asn Trp Arg Val Cys Thr Val Leu
                      135
Ala Ser Thr Cys Trp Ile Phe Ser Phe Leu Leu Ala
                  150
<210> 1566
<211> 329
<212> PRT
<213> Unknown (H38g483 protein)
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<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(329)
<223> Xaa = Any Amino Acid
<400> 1566
Met Glu Cys Asn Gln Thr Trp Ile Thr Asp Ile Thr Leu Leu Gly Phe
                             10
Gln Val Gly Pro Ala Leu Ala Ile Leu Ile Tyr Glu Leu Phe Ser Val
Phe Tyr Thr Leu Thr Leu Leu Gly Asn Gly Val Ile Phe Gly Ile Ile
Cys Leu Asp Ser Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser His
                       55
Leu Ala Ile Ile Asp Met Ser Tyr Ala Ser Asn Asn Val Pro Lys Met
                                       75
                   70
Leu Ala Asn Leu Met Asn Gln Lys Arg Thr Ile Ser Phe Val Pro Cys
                                   90
               85
Ile Met Gln Thr Phe Leu Tyr Leu Ala Phe Ala Val Thr Glu Cys Leu
                               105
Ile Leu Val Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His Pro
                           120
Phe Gln Tyr Thr Val Ile Met Ser Trp Arg Val Cys Thr Ile Leu Val
                       135
                                           140
Leu Thr Ser Trp Ser Cys Gly Phe Ala Leu Ser Leu Val His Glu Ile
                150
                                       155
Leu Leu Arg Leu Pro Phe Cys Gly Pro Arg Asp Val Asn His Leu
                                   170
Phe Cys Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ala Asp Thr Trp
                               185
Val Asn Gln Val Val Ile Phe Ala Thr Cys Val Phe Val Leu Val Gly
                           200
                                               205
Pro Leu Ser Leu Ile Leu Val Ser Tyr Met His Ile Leu Gly Ala Ile
                       215
                                           220
Leu Lys Ile Gln Thr Lys Glu Gly Arg Ile Lys Ala Phe Ser Thr Cys
                   230
                                       235
Ser Ser His Leu Cys Val Val Gly Leu Phe Phe Gly Ile Ala Met Val
               245
                                   250
Val Tyr Met Val Pro Asp Ser Asn Gln Arg Glu Glu Gln Glu Lys Met
           260
                               265
                                                  270
Leu Ser Leu Phe His Ser Val Leu Asn Pro Met Leu Asn Pro Leu Ile
                           280
                                               285
Tyr Ser Leu Arg Asn Ala Gln Leu Lys Gly Ala Leu His Arg Ala Leu
                       295
                                           300
Gln Arg Lys Arg Ser Met Arg Thr Val Tyr Gly Leu Cys Leu Xaa Asn
                   310
                                       315
Met Trp Phe Ala Glu Ala Arg Ile Leu
               325
<210> 1567
<211> 313
<212> PRT
<213> Unknown (H38g484 protein)
<220>
<223> Synthetic construct
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<221> VARIANT <222> (1)...(313)

<223> Xaa = Any Amino Acid

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<400> 1567
Met Gly Val Asn Gln Ser Trp Ser Pro Glu Phe Ile Leu Val Glu Ser
                                    10
Gln Leu Ser Ala Glu Met Glu Val Leu Leu Phe Xaa Ile Phe Ser Leu
            20
                                25
Leu Tyr Ile Phe Ser Leu Leu Ala Asn Gly Met Ile Leu Gly Leu Ile
                            40
Cys Leu Asp His Ile Leu Pro Thr Pro Met Tyr Phe Phe Leu Ser His
                        55
Leu Ala Ile Ile Asp Met Ser Tyr Ala Ser Asn Asn Val Pro Lys Met
                    70
                                        75
Leu Ala Asn Leu Met Asn Lys Lys Arg Thr Ile Ser Phe Leu Pro Cys
                                    90
Ile Met Gln Thr Tyr Leu Tyr Phe Ser Phe Ala Ala Thr Glu Cys Leu
            100
                                105
                                                    110
Ile Leu Val Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His Pro
        115
                            120
                                                125
Leu Gln Tyr Thr Val Ile Met Ser Trp Arg Val Cys Thr Ile Leu Ala
                        135
Leu Thr Ser Trp Ser Cys Gly Phe Ala Leu Ser Leu Val His Ala Ile
                   150
                                        155
Leu Leu Arg Leu Pro Phe Cys Gly Pro Arg Asp Val Asn His Leu
               165
                                    170
Phe Cys Glu Ile Leu Ser Val Leu Lys Leu Ala Cys Ser Asp Thr Trp
           180
                                185
Val Asn Gln Val Val Ile Phe Ala Thr Cys Val Phe Val Leu Val Gly
       195
                           200
                                                205
Pro Leu Cys Leu Met Leu Val Ser Tyr Met His Ile Leu Leu Ala Ile
                        215
                                            220
Leu Lys Ile Gln Thr Lys Glu Gly Arg Ile Lys Ala Phe Ser Thr Cys
                    230
                                        235
Ser Ser His Leu Cys Val Val Gly Leu Phe Phe Gly Ile Ala Met Val
                245
                                    250
Val Tyr Ile Val Pro Asp Ser Asn Gln Arg Glu Glu Gln Glu Lys Met
                                265
Leu Ser Leu Phe His Ser Val Leu Asn Pro Ile Leu Asn Pro Leu Ile
                            280
                                                285
Tyr Ser Leu Arg Asn Ala Gln Val Lys Gly Ala Leu His Arg Ala Leu
                       295
Gln Arg Thr Leu Ser Met Xaa Gly Val
                   310
```

<210> 1568

<211> 334

<212> PRT

<213> Unknown (H38g485 protein)

<220>

<223> Synthetic construct

<400> 1568

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Ile Ile Leu Val Ser Arg Leu Glu Pro Lys Leu His Met Pro Met Tyr
                    70
                                        75
Phe Phe Leu Ser His Leu Ser Phe Leu Tyr Arg Cys Phe Thr Ser Ser
                                    90
                85
Val Ile Pro Gln Leu Leu Val Asn Leu Trp Glu Pro Met Lys Thr Ile
                                105
            100
Ala Tyr Gly Gly Cys Leu Val His Leu Tyr Asn Ser His Ala Leu Gly
                            120
        115
                                                125
Ser Thr Glu Cys Val Leu Pro Ala Val Met Ser Cys Asp Arg Tyr Val
                        135
                                            140
Ala Val Cys Arg Pro Leu His Tyr Thr Val Leu Met His Ile His Leu
                    150
                                        155
Cys Met Ala Leu Ala Ser Met Ala Trp Leu Ser Gly Ile Ala Thr Thr
                165
                                    170
Leu Val Gln Ser Thr Leu Thr Leu Gln Leu Pro Phe Cys Gly His Arg
           180
                               185
                                                    190
Gln Val Asp His Phe Ile Cys Glu Val Pro Val Leu Ile Lys Leu Ala
                           200
                                                205
Cys Val Gly Thr Thr Phe Asn Glu Ala Glu Leu Phe Val Ala Ser Ile
                       215
                                            220
Leu Phe Leu Ile Val Pro Val Ser Phe Ile Leu Val Ser Ser Gly Tyr
                   230
                                        235
Ile Ala His Ala Val Leu Arg Ile Lys Ser Ala Thr Arg Arg Gln Lys
               245
                                    250
Ala Phe Gly Thr Cys Phe Ser His Leu Thr Val Val Thr Ile Phe Tyr
                               265
Gly Thr Ile Ile Phe Met Tyr Leu Gln Pro Ala Lys Ser Arg Ser Arg
                            280
Asp Gln Gly Lys Phe Val Ser Leu Phe Tyr Thr Val Val Thr Arg Met
                       295
                                            300
Leu Asn Pro Leu Ile Tyr Thr Leu Arg Ile Lys Glu Val Lys Gly Ala
                   310
                                        315
Leu Lys Lys Val Leu Ala Lys Ala Leu Gly Val Asn Ile Leu
```

<210> 1569

<211> 170

<212> PRT

<213> Unknown (H38g486 protein)

<220>

<223> Synthetic construct

<400> 1569

Met Glu Gly Asn Lys Thr Trp Ile Thr Asp Ile Thr Leu Pro Arg Phe 10 Gln Val Gly Pro Ala Leu Glu Ile Leu Leu Cys Gly Leu Phe Ser Ala 20 25 Phe Tyr Thr Leu Thr Leu Leu Gly Asn Gly Val Ile Phe Gly Ile Ile 40 Cys Leu Asp Cys Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser His 55 60 Leu Ala Ile Val Asp Ile Ser Tyr Ala Ser Asn Tyr Val Pro Lys Met 70 75 Leu Thr Asn Leu Met Asn Gln Glu Ser Thr Ile Ser Phe Phe Pro Cys 85 90 Ile Met Gln Thr Phe Leu Tyr Leu Ala Phe Ala His Val Glu Cys Leu 100 105 110 Ile Leu Val Val Met Ser Tyr Asp Arg Tyr Ala Asp Ile Cys His Pro 120 125 Leu Arg Tyr Asn Ile Leu Met Ser Trp Arg Val Cys Thr Val Leu Ala

```
135
                                             140
 Val Ala Ser Trp Val Phe Ser Phe Leu Leu Ala Leu Val Pro Phe Ser
                   150
                                        155
 Ser Gln Ser Leu Arg Cys Met Asn Val Leu
                 165
 <210> 1570
 <211> 308
 <212> PRT
 <213> Unknown (H38g487 protein)
<220>
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Met Asp Thr Gly Asn Lys Thr Leu Pro Gln Asp Phe Leu Leu Gly
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Phe Pro Gly Ser Gln Thr Leu Gln Leu Ser Leu Phe Met Leu Phe Leu
            20
                                25
Val Met Tyr Ile Leu Thr Val Ser Gly Asn Val Ala Ile Leu Met Leu
Val Ser Thr Ser His Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser
Asn Leu Ser Phe Leu Glu Ile Trp Tyr Thr Thr Ala Ala Val Pro Lys
                    70
                                        75
Ala Leu Ala Ile Leu Leu Gly Arg Ser Gln Thr Ile Ser Phe Thr Ser
                85
                                    90
Cys Leu Gln Met Tyr Phe Val Phe Ser Leu Gly Cys Thr Glu Tyr
                               105
Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Cys Leu Ala Ile Cys Tyr
                            120
Pro Leu His Tyr Gly Ala Ile Met Ser Ser Leu Leu Ser Ala Gln Leu
                        135
                                            140
Ala Leu Gly Ser Trp Val Cys Gly Phe Val Ala Ile Ala Val Pro Thr
                    150
                                        155
Ala Leu Ile Ser Gly Leu Ser Phe Cys Gly Pro Arg Ala Ile Asn His
                                    170
                165
Phe Phe Cys Asp Ile Ala Pro Trp Ile Ala Leu Ala Cys Thr Asn Thr
            180
                                185
Gln Ala Val Glu Leu Val Ala Phe Val Ile Ala Val Val Val Ile Leu
                            200
                                                205
Ser Ser Cys Leu Ile Thr Phe Val Ser Tyr Val Tyr Ile Ile Ser Thr
                        215
                                            220
Ile Leu Arg Ile Pro Ser Ala Ser Gly Arg Ser Lys Ala Phe Ser Thr
                   230
                                        235
Cys Ser Ser His Leu Thr Val Val Leu Ile Trp Tyr Gly Ser Thr Val
                245
                                    250
Phe Leu His Val Arg Thr Ser Ile Lys Asp Ala Leu Asp Leu Ile Lys
           260
                                265
Ala Val His Val Leu Asn Thr Val Val Thr Pro Val Leu Asn Pro Phe
                           280
                                               285
Ile Tyr Thr Leu Arg Asn Lys Glu Val Arg Glu Thr Leu Leu Lys Lys
    290
                       295
Trp Lys Gly Lys
305
<210> 1571
<211> 223
<212> PRT
<213> Unknown (H38g488 protein)
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  <221> VARIANT
  <222> (1)...(223)
  <223> Xaa = Any Amino Acid
  <400> 1571
  Lys Glu Met Gly Cys His Gln Ser Met Val Thr Glu Phe Ile Leu Val
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  Gly Phe Gln Leu Ser Ala Glu Met Glu Val Leu Leu Phe Trp Ser Phe
                                  25
  Ser Leu Gly Ile Ala Leu Glu Leu Ile Cys Leu Asp His Ser Leu His
          35
                             40
  Thr Pro Tyr Phe Phe Leu Ser His Leu Ala Val Ile Asp Met Ala Tyr
 Ala Ser Asn Asn Val Pro Lys Met Leu Val Asp Leu Ala Asn Xaa Lys
                                         75
 Ser Thr Met Cys Phe Phe Pro Cys Ile Met Gln Thr Phe Leu Tyr Leu
                                     90
 Ala Phe Ala His Ile Glu Cys Leu Ile Leu Val Val Leu Ser Tyr Asp
                                 105
 Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Asn Val Leu Met Ser
         115
                             120
                                                 125
 Trp Arg Glu Cys Thr Val Leu Ala Val Ala Ser Trp Val Phe Ser Phe
                        135
                                             140
 Leu Leu Ala Leu Val His Leu Val Leu Ile Leu Arg Leu Pro Phe Ser
                    150
                                         155
 Gly Pro His Glu Ile Asn His Tyr Cys Glu Ile Leu Ser Val Leu Lys
                 165
                                    170
 Leu Ala Cys Ala Asp Thr Trp Leu Asn Gln Val Val Ile Phe Ala Ser
             180
                                 185
 Cys Met Phe Ile Leu Val Gly Xaa Leu Cys Leu Val Leu Val Ser Tyr
                             200
                                                205
 Leu Gly Ile Trp Arg His Leu Arg Ser Val Ala Lys Pro Lys Arg
     210
 <210> 1572
 <211> 309
 <212> PRT
 <213> Unknown (H38g489 protein)
<220>
<223> Synthetic construct
<400> 1572
Met Gly Leu Gly Asn Glu Ser Ser Leu Met Asp Phe Ile Leu Leu Gly
                                    10
Phe Ser Asp His Pro Arg Leu Glu Ala Val Leu Phe Val Phe Val Leu
Phe Phe Tyr Leu Leu Thr Leu Val Gly Asn Phe Thr Ile Ile Ile
        35
                            40
Ser Tyr Leu Asp Pro Pro Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                        55
Asn Leu Ser Leu Leu Asp Ile Cys Phe Thr Thr Ser Leu Ala Pro Gln
                   70 ·
                                        75
Thr Leu Val Asn Leu Gln Arg Pro Lys Lys Thr Ile Thr Tyr Gly Gly
                                   90
Cys Val Ala Gln Leu Tyr Ile Ser Leu Ala Leu Gly Ser Thr Glu Cys
                              105
                                                    110
Ile Leu Leu Ala Asp Met Ala Leu Asp Arg Tyr Ile Ala Val Cys Lys
```

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120
                                               125
        115
Pro Leu His Tyr Val Val Ile Met Asn Pro Arg Leu Cys Gln Gln Leu
                     135
                                          140
Ala Ser Ile Ser Trp Leu Ser Gly Leu Ala Ser Ser Leu Ile His Ala
                                       155
                    150
Thr Phe Thr Leu Gln Leu Pro Leu Cys Gly Asn His Arg Leu Asp His
                                   170
Phe Ile Cys Glu Val Pro Ala Leu Leu Lys Leu Ala Cys Val Asp Thr
            180
                                185
Thr Val Asn Glu Leu Val Leu Phe Val Val Ser Val Leu Phe Val Val
                           200
                                               205
Ile Pro Pro Ala Leu Ile Ser Ile Ser Tyr Gly Phe Ile Thr Gln Ala
                       215
                                            220
Val Leu Arg Ile Lys Ser Val Glu Ala Arg His Lys Ala Phe Ser Thr
                                       235
Cys Ser Ser His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Ile
               245
                                   250
Tyr Val Tyr Leu Gln Pro Ser Asp Ser Tyr Ala Gln Asp Gln Gly Lys
            260
                               265
Phe Ile Ser Leu Phe Tyr Thr Met Val Thr Pro Thr Leu Asn Pro Ile
                        280
       275
                                               285
Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys Glu Ala Leu Arg Lys Leu
                       295
Leu Ser Gly Lys Leu
305
<210> 1573
<211> 337
<212> PRT
<213> Unknown (H38g490 protein)
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<223> Synthetic construct
<221> VARIANT
<222> (1)...(337)
<223> Xaa = Any Amino Acid
<400> 1573
Ser Thr Asp Pro Gln Asn Leu Thr Asp Val Ser Val Phe Leu Leu
                                   10
Gly Thr Thr Glu Asp Pro Glu Arg Gln Pro Val Leu Thr Gly Leu Phe
                               25
Leu Ser Met Cys Leu Val Met Val Leu Gly Asn Leu Leu Ile Ile Leu
                           40
Ala Ile Ser Pro Asp Ser His Leu His Ile Pro Met Tyr Phe Phe Leu
                       55
                                           60
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
                   70
                                       75
Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala
               85
                                   90
Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
           100
                               105
Glu Asn Met Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile
       115
                           120
                                               125
Cys His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly
                      135
                                           140
Phe Leu Val Leu Leu Ser Phe Phe Ser Val Leu Ser Leu Leu Asp Ser
                  150
                                       155
Gln Leu His Asn Leu Ile Ala Leu Gln Val Thr Cys Phe Lys Asp Val
                                   170
```

Glu Ile Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala 185 180 Cys Cys Asp Thr Phe Thr Asn Lys Ile Ile Met Tyr Phe Pro Ala Ala 195 200 Ile Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Ser Lys 215 220 Ile Val Ser Ser Ile Leu Arg Val Ser Ser Gly Gly Lys Tyr Lys 235 230 Ala Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Val Tyr 245 250 Gly Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp Asp Val Ser Ser Ser 265 Pro Arg Lys Gly Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro 275 280 Met Pro Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser 295 300 Val Leu Arg Arg Pro His Gly Ser Thr Val Xaa Ser Gln Tyr Leu Leu 310 315 Ile Cys Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Arg Lys Val 330 Lys

<210> 1574

<211> 293

<212> PRT

<213> Unknown (H38g491 protein)

<220>

<223> Synthetic construct

<400> 1574

Met Gly Phe Ser Asn Ser Trp Asp Ile Gln Ile Val His Ala Ala Leu 10 Phe Phe Leu Val Tyr Leu Ala Ala Val Ile Gly Asn Leu Leu Ile Ile 25 Ile Leu Thr Thr Leu Asp Val His Leu Gln Thr Pro Met Tyr Phe Phe 40 Leu Arg Asn Leu Ser Phe Leu Asp Phe Cys Tyr Ile Ser Val Thr Ile 55 60 Pro Lys Ser Ile Val Ser Ser Leu Thr His Asp Thr Ser Ile Ser Phe 70 75 Phe Gly Cys Ala Leu Gln Ala Phe Phe Met Asp Leu Ala Thr Thr 90 Glu Val Ala Ile Leu Thr Val Met Ser Tyr Asp Arg Tyr Met Ala Ile 100 105 Cys Arg Pro Leu His Tyr Glu Val Ile Ile Asn Gln Gly Val Cys Leu 120 125 Arg Met Met Ala Met Ser Trp Leu Ser Gly Val Ile Cys Gly Phe Met 140 135 His Val Ile Ala Thr Phe Ser Leu Pro Phe Cys Gly Arg Asn Arg Ile 150 155 Arg Gln Phe Phe Cys Asn Ile Pro Gln Leu Leu Ser Leu Leu Asp Pro 170 Lys Val Ile Thr Ile Glu Ile Gly Val Met Val Phe Gly Thr Ser Leu 185 Val Ile Ile Ser Phe Val Val Ile Thr Leu Ser Tyr Met Tyr Ile Phe 200 205 Ser Val Ile Met Arg Ile Pro Ser Lys Glu Gly Arg Ser Lys Thr Phe 220 215 Ser Thr Cys Ile Pro His Leu Val Val Thr Leu Phe Met Ile Ser

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225
                    230
                                         235
Gly Ser Ile Ala Tyr Val Lys Pro Ile Ser Asn Ser Pro Pro Val Leu
                245
                                    250
Asp Val Phe Leu Ser Ala Phe Tyr Thr Val Val Pro Pro Thr Leu Asn
            260
                                265
Pro Val Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Ala Ala Leu Arg
        275
                            280
Arg Gln Cys Gly Pro
    290
<210> 1575
<211> 341
<212> PRT
<213> Unknown (H38g492 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(341)
<223> Xaa = Any Amino Acid
<400> 1575
Met Met Gly His Gln Asn His Thr Phe Ser Ser Asp Phe Ile Leu Leu
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Gly Leu Phe Ser Ser Ser Pro Thr Ser Val Val Phe Phe Leu Asp Asn
            20
                                25
Leu Phe Ile Phe Ile Met Ser Val Thr Glu Asn Thr Leu Met Ile Leu
                            40
                                                 45
Leu Ile Arg Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu
                        55
Ser His Leu Ser Leu Met Asp Ile Leu His Val Ser Asn Ile Val Pro
                    70
                                        75
Lys Met Val Thr Asn Phe Leu Ser Gly Ser Arg Thr Ile Ser Phe Ala
                85
                                    90
Gly Cys Gly Phe Gln Val Phe Leu Ser Leu Thr Leu Leu Gly Gly Glu
            100
                                105
Cys Leu Leu Ala Ala Met Ser Cys Asp Arg Tyr Val Ala Ile Cys
                            120
                                                125
His Pro Leu Arg Tyr Pro Ile Leu Met Lys Glu Tyr Ala Ser Ala Leu
                        135
                                            140
Met Ala Gly Gly Ser Trp Leu Ile Gly Val Phe Asn Ser Thr Val His
                    150
                                        155
Thr Ala Tyr Ala Leu Gln Phe Pro Phe Cys Gly Ser Arg Ala Ile Asp
                165
                                    170
His Phe Phe Cys Glu Val Pro Ala Met Leu Lys Leu Ser Cys Ala Asp
           180
                                185
                                                    190
Thr Thr Arg Tyr Glu Arg Gly Val Cys Val Ser Ala Val Ile Phe Leu
                            200
                                                205
Leu Ile Pro Phe Ser Leu Ile Ser Ala Ser Tyr Gly Gln Ile Ile Leu
                        215
                                            220
Thr Val Leu Gln Met Lys Ser Ser Glu Ala Arg Lys Lys Ser Phe Ser
                    230
                                        235
Thr Cys Ser Phe His Met Ile Val Val Thr Met Tyr Tyr Gly Pro Phe
                                    250
Ile Phe Thr Tyr Met Arg Pro Lys Ser Tyr His Thr Pro Gly Gln Asp
           260
                                265
Lys Phe Leu Ala Ile Phe Tyr Thr Ile Leu Thr Pro Thr Leu Asn Pro
                            280
                                                285
Phe Ile Tyr Ser Phe Arg Asn Lys Asp Val Leu Ala Val Met Thr Lys
                        295
```

Tyr Ala Gln Lys Xaa Leu Ser Ala Gln Lys Asn Glu Xaa Glu Asn Ser

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310
                                       315
 Xaa Met Cys Val Leu Ser Ile Ser Met Leu Asn Ala Xaa Arg Ile Leu
                325
                                    330
 Met Arg Trp Phe Pro
            340
 <210> 1576
 <211> 311
 <212> PRT
 <213> Unknown (H38g493 protein)
<223> Synthetic construct
<400> 1576
Met Lys Trp Ala Asn Gln Thr Ala Val Thr Glu Tyr Val Leu Met Gly
          5
                                   10
Leu His Glu His Cys Asn Leu Glu Val Val Leu Phe Val Phe Cys Leu
        20
                               25
Gly Ile Tyr Ser Val Asn Val Leu Gly Asn Ala Leu Leu Ile Gly Leu
        35
                           40
                                               45
Asn Val Leu His Pro Arg Leu His Asn Pro Met Tyr Phe Phe Ser Asn
                        55
                                           60
Leu Ser Leu Met Asp Ile Cys Gly Thr Ser Ser Phe Val Pro Leu Met
                    70
                                        75
Leu Asp Asn Phe Leu Glu Thr Gln Arg Thr Ile Ser Phe Pro Gly Cys
               85
                                    90
Ala Leu Gln Met Tyr Leu Thr Leu Ala Leu Gly Ser Thr Glu Cys Leu
           100
                               105
Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Gln Pro
                           120
                                               125
Leu Arg Tyr Pro Glu Leu Met Ser Gly Gln Thr Cys Met Gln Met Ala
                       135
Ala Leu Ser Trp Gly Thr Gly Phe Ala Asn Ser Leu Leu Gln Ser Ile
                   150
                                       155
Leu Val Trp His Leu Pro Phe Cys Gly His Val Ile Asn Tyr Phe Tyr
                165
                                   170
Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Gly Asp Ile Ser Leu Asn
            180
                                185
                                                   190
Ala Leu Ala Leu Met Val Ala Thr Ala Val Leu Thr Leu Ala Pro Leu
       195
                           200
                                                205
Leu Leu Ile Cys Leu Ser Tyr Leu Phe Ile Leu Ser Ala Ile Leu Arg
                       215
                                           220
Val Pro Ser Ala Ala Gly Arg Cys Lys Ala Phe Ser Thr Cys Ser Ala
                   230
                                       235
His Arg Thr Val Val Val Phe Tyr Gly Thr Ile Ser Phe Met Tyr
               245
                                   250
Phe Lys Pro Lys Ala Lys Asp Pro Asn Val Asp Lys Thr Val Ala Leu
           260
                               265
Phe Tyr Gly Val Val Thr Pro Ser Leu Asn Pro Ile Ile Tyr Ser Leu
                           280
                                               285
Arg Asn Ala Glu Val Lys Ala Ala Val Leu Thr Leu Leu Arg Gly Gly
                       295
                                           300
Leu Leu Ser Arg Lys Ala Ser
305
<210> 1577
<211> 319
<212> PRT
<213> Unknown (H38g494 protein)
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<220>
<223> Synthetic construct
Met Met Glu Ile Ala Asn Val Ser Ser Pro Glu Val Phe Val Leu Leu
Gly Phe Ser Thr Arg Pro Ser Leu Glu Thr Val Leu Phe Ile Val Val
                                25
Leu Ser Phe Tyr Met Val Ser Ile Leu Gly Asn Gly Ile Ile Ile Leu
                            40
Val Ser His Thr Asp Val His Leu His Thr Pro Met Tyr Phe Phe Leu
                       55
                                            60
Ala Asn Leu Pro Phe Leu Asp Met Ser Phe Thr Thr Ser Ile Val Pro
                                        75
                    70
Gln Leu Leu Ala Asn Leu Trp Gly Pro Gln Lys Thr Ile Ser Tyr Gly
                                    90
               85
Gly Cys Val Val Gln Phe Tyr Ile Ser His Trp Leu Gly Ala Thr Glu
                                105
Cys Val Leu Leu Ala Thr Met Ser Tyr Asp Arg Tyr Ala Ala Ile Cys
                            120
                                                125
Arg Pro Leu His Tyr Thr Val Ile Met His Pro Gln Leu Cys Leu Gly
                        135
Leu Ala Leu Ala Ser Trp Leu Gly Gly Leu Thr Thr Ser Met Val Gly
                    150
                                        155
Ser Thr Leu Thr Met Leu Leu Pro Leu Cys Gly Asn Asn Cys Ile Asp
                165
                                    170
His Phe Phe Cys Glu Met Pro Leu Ile Met Gln Leu Ala Cys Val Asp
            180
                                185
                                                    190
Thr Ser Leu Asn Glu Met Glu Met Tyr Leu Ala Ser Phe Val Phe Val
                            200
                                                205
Val Leu Pro Leu Gly Leu Ile Leu Val Ser Tyr Gly His Ile Ala Arg
                        215
                                            220
Ala Val Leu Lys Ile Arg Ser Ala Glu Gly Arg Arg Lys Ala Phe Asn
                    230
                                        235
Thr Cys Ser Ser His Val Ala Val Val Ser Leu Phe Tyr Gly Ser Ile
                                   250
               245
Ile Phe Met Tyr Leu Gln Pro Ala Lys Ser Thr Ser His Glu Gln Gly
           260
                                265
Lys Phe Ile Ala Leu Phe Tyr Thr Val Val Thr Pro Ala Leu Asn Pro
                           280
Leu Ile Tyr Thr Leu Arg Asn Thr Glu Val Lys Ser Ala Leu Arg His
                       295
Met Val Leu Glu Asn Cys Cys Gly Ser Ala Gly Lys Leu Ala Gln
                    310
<210> 1578
<211> 264
<212> PRT
<213> Unknown (H38g495 protein)
<220>
<223> Synthetic construct
<400> 1578
Met Met Val Leu Ser Ile Val Leu Thr Ser Leu Phe Gly Asn Ser Leu
                                   10
Met Ile Leu Leu Ile His Trp Asp His Arg Phe His Thr Pro Met Tyr
                               25
Phe Leu Leu Ser Gln Leu Ser Leu Met Asp Val Met Leu Val Ser Thr
                            40
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Thr Val Pro Lys Met Ala Ala Asp Tyr Leu Thr Gly Ser Lys Ala Ile
Ser Arg Ala Gly Cys Gly Ala Gln Ile Phe Phe Leu Pro Thr Leu Gly
                    70
                                        75
Gly Gly Glu Cys Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala
               85
                                    90
Ala Val Cys His Pro Leu Arg Tyr Pro Thr Leu Met Ser Trp Gln Leu
           100
                               105
Cys Leu Arg Met Asn Leu Ser Cys Trp Leu Leu Gly Ala Ala Asp Gly
                           120
                                                125
Leu Leu Gln Ala Val Ala Thr Leu Ser Phe Pro Tyr Cys Gly Ala His
                       135
                                            140
Glu Ile Asp His Phe Phe Cys Glu Thr Pro Val Leu Val Arg Leu Ala
                   150
                                        155
Cys Ala Asp Thr Ser Val Phe Glu Asn Ala Met Tyr Ile Cys Cys Val
               165
                                   170
Leu Met Leu Leu Val Pro Phe Ser Leu Ile Leu Ser Ser Tyr Gly Leu
            180
                               185
                                                    190
Ile Leu Ala Ala Val Leu His Met Arg Ser Thr Glu Ala Arg Lys Lys
       195
                           200
                                                205
Ala Phe Ala Thr Cys Ser Ser His Val Ala Val Val Gly Leu Phe Tyr
                                            220
                       215
Gly Ala Ala Ile Phe Thr Tyr Met Arg Pro Lys Ser His Arg Ser Thr
                                       235
                   230
Asn His Asp Lys Val Val Ser Ala Phe Tyr Thr Met Phe Thr Pro Leu
               245
                                   250
Leu Asn Pro Leu Ile Tyr Ser Val
           260
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<210> 1579

<211> 220

<212> PRT

<213> Unknown (H38g496 protein)

<220>

<223> Synthetic construct

<400> 1579

Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Ala Ser Ile Ala Pro Gln 10 Leu Leu Trp Asn Leu Gly Gly Pro Glu Lys Thr Ile Thr Tyr His Gly 20 25 Cys Val Ala Gln Leu Tyr Ile Tyr Met Met Leu Gly Ser Thr Glu Cys 40 Val Leu Leu Val Val Met Ser His Asp Arg Tyr Val Ala Val Cys Arg 55 Ser Leu His Tyr Met Ala Val Met Arg Pro His Leu Cys Leu Gln Leu 70 75 Val Thr Val Ala Trp Cys Cys Gly Phe Leu Asn Ser Phe Ile Met Cys 90 85 Pro Gln Thr Met Gln Leu Ser Arg Cys Gly Arg Arg Arg Val Asp His 105 100 Phe Leu Cys Glu Met Pro Ala Leu Ile Ala Met Ser Cys Glu Glu Thr 120 125 Met Leu Val Glu Ala Ile Thr Phe Ala Leu Gly Val Ala Leu Leu Leu 140 135 Val Pro Leu Ser Leu Ile Leu Ile Ser Tyr Gly Val Ile Ala Ala Ala 150 155 Val Leu Arg Met Lys Ser Ala Ala Gly Arg Lys Lys Ala Phe His Thr 165 170 Cys Ser Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly Thr Ile Ile

```
185
 Tyr Val Tyr Leu Lys Pro Ala Asn Ser Tyr Ser Gln Asp Gln Gly Lys
                          200
Phe Leu Thr Leu Phe Tyr Thr Ile Val Ile Pro Ser
<210> 1580
<211> 312
<212> PRT
<213> Unknown (H38g497 protein)
<220>
<223> Synthetic construct
<400> 1580
Met Glu Pro Leu Asn Arg Thr Glu Val Ser Glu Phe Phe Leu Lys Gly
                                    10
Phe Ser Gly Tyr Pro Ala Leu Glu His Leu Leu Phe Pro Leu Cys Ser
            20
                                25
Ala Met Tyr Leu Val Thr Leu Leu Gly Asn Thr Ala Ile Met Ala Val
                            40
Ser Val Leu Asp Ile His Leu His Thr Pro Val Tyr Phe Phe Leu Gly
                        55
                                            60
Asn Leu Ser Thr Leu Asp Ile Cys Tyr Thr Pro Thr Phe Val Pro Leu
                                        75
Met Leu Val His Leu Leu Ser Ser Arg Lys Thr Ile Ser Phe Ala Val
                                   90
Cys Ala Ile Gln Met Cys Leu Ser Leu Ser Thr Gly Ser Thr Glu Cys
            100
                               105
Leu Leu Leu Ala Ile Thr Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Gln
                            120
                                                125
Pro Leu Arg Tyr His Val Leu Met Ser His Arg Leu Cys Val Leu Leu
                        135
                                            140
Met Gly Ala Ala Trp Val Leu Cys Leu Leu Lys Ser Val Thr Glu Met
                    150
                                        155
Val Ile Ser Met Arg Leu Pro Phe Cys Gly His His Val Val Ser His
                165
                                    170
Phe Thr Cys Lys Ile Leu Ala Val Leu Lys Leu Ala Cys Gly Asn Thr
                                185
                                                   190
Ser Val Ser Glu Asp Phe Leu Leu Ala Gly Ser Ile Leu Leu Pro
                            200
                                                205
Val Pro Leu Ala Phe Ile Cys Leu Ser Tyr Leu Leu Ile Leu Ala Thr
                        215
                                            220
Ile Leu Arg Val Pro Ser Ala Ala Arg Cys Cys Lys Ala Phe Ser Thr
                   230
                                       235
Cys Leu Ala His Leu Ala Val Val Leu Leu Phe Tyr Gly Thr Ile Ile
                245
                                    250
Phe Met Tyr Leu Lys Pro Lys Ser Lys Glu Ala His Ile Ser Asp Glu
                               265
Val Phe Thr Val Leu Tyr Ala Met Val Thr Thr Met Leu Asn Pro Thr
       275
                           280
                                                285
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Ala Arg Lys Val
                       295
Trp Gly Arg Ser Arg Ala Ser Arg
                   310
<210> 1581
<211> 314
<212> PRT
<213> Unknown (H38g498 protein)
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<220> <223> Synthetic construct <400> 1581 Met Glu Arg Gly Asn Trp Thr Leu Val Thr Glu Phe Ile Leu Val Gly 10 Ile Pro Thr Thr Arg Ala Leu Gly Gly Leu Leu Phe Val Ile Phe Tyr Pro Ala Tyr Leu Val Thr Val Leu Gly Asn Thr Leu Ile Ile Leu Ile Leu Val Asp Tyr Arg Leu His Ser Pro Met Tyr Phe Phe Leu Ser 55 Asn Leu Ser Phe Ser Glu Thr Leu Thr Ile Thr Cys Ala Val Pro Lys 70 75 Met Leu Glu Gly Phe Pro Ser Glu Arg Lys Ser Ile Thr Ser Gly Glu 90 85 Cys Ser Ala Gln Ser Tyr Phe Tyr Phe Leu Ser Gly Cys Thr Glu Phe 100 105 Ile Pro Phe Ala Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Ser 120 125 Pro Leu Gln Tyr Pro Ala Ile Met Thr Ser Ser Leu Cys Ala His Leu 135 140 Val Ile Leu Ser Trp Val Gly Gly Phe Leu Leu Met Leu Pro Ser Thr 155 150 Ile Leu Lys Ala Gly Leu Pro His Cys Gly Pro Asn Val Ile Glu His 165 170 Phe Phe Cys Asp Ser Ala Pro Leu Leu His Leu Ala Cys Ala Asp Ile 185 Arg Ala Ile Glu Leu Leu Asp Phe Leu Ser Ser Leu Val Leu Ile Leu 200 205 Ser Ser Leu Ser Leu Thr Val Val Ser Tyr Val Tyr Ile Ile Ser Thr 215 220 Ile Leu Lys Ile Pro Ser Gly Gln Gly Gln Arg Lys Ala Phe Ala Thr 235 230 Cys Ala Ser His Phe Thr Val Val Ser Val Gly Tyr Gly Ile Ser Ile 245 250 Phe Val Tyr Val His Pro Ser Gln Lys Ser Ser Leu His Leu Asn Lys 260 265 Ile Leu Phe Ile Leu Ser Ser Ile Ile Thr Pro Leu Leu Asn Pro Phe 280 285 Val Phe Ser Leu Trp Asn Glu Pro Met Lys Asp Ala Leu Lys Asp Ala 295 Val Gly Arg Arg Thr Glu Leu Ala Gln Arg 310 <210> 1582 <211> 309 <212> PRT <213> Unknown (H38g499 protein) <220> <223> Synthetic construct <400> 1582 Met Ala Asn Leu Thr Ile Val Thr Glu Phe Ile Leu Met Gly Phe Ser 10 Thr Asn Lys Asn Met Cys Ile Leu His Ser Ile Leu Phe Leu Leu Ile 25 Tyr Leu Cys Ala Leu Met Gly Asn Val Leu Ile Ile Met Ile Thr Thr

Leu Asp His His Leu His Thr Pro Val Tyr Phe Phe Leu Lys Asn Leu

```
55
                                             60
 Ser Phe Leu Asp Leu Cys Leu Ile Ser Val Thr Ala Pro Lys Ser Ile
                    70
                                         75
 Ala Asn Ser Leu Ile His Asn Asn Ser Ile Ser Phe Leu Gly Cys Val
                                     90
 Ser Gln Val Phe Leu Leu Leu Ser Ser Ala Ser Ala Glu Leu Leu
                                 105
 Leu Thr Val Met Ser Phe Asp Arg Tyr Thr Ala Ile Cys His Pro Leu
                            120
                                                 125
 His Tyr Asp Val Ile Met Asp Arg Ser Thr Cys Val Gln Arg Ala Thr
                        135
 Val Ser Trp Leu Tyr Gly Gly Leu Ile Ala Val Met His Thr Ala Gly
                    150
                                         155
 Thr Phe Ser Leu Ser Tyr Cys Gly Ser Asn Met Val His Gln Phe Phe
                165
                                     170
 Cys Asp Ile Pro Gln Leu Leu Ala Ile Ser Cys Ser Glu Asn Leu Ile
                                 185
Arg Glu Ile Ala Leu Ile Leu Ile Asn Val Val Leu Asp Phe Cys Cys
                             200
                                                 205
Phe Ile Val Ile Ile Ile Thr Tyr Val His Val Phe Ser Thr Val Lys
                        215
                                             220
Lys Ile Pro Ser Thr Glu Gly Gln Ser Lys Ala Tyr Ser Ile Cys Leu
                    230
                                         235
Pro His Leu Leu Val Val Leu Phe Leu Ser Thr Gly Phe Ile Ala Tyr
                245
                                    250
Leu Lys Pro Ala Ser Glu Ser Pro Ser Ile Leu Asp Ala Val Ile Ser
            260
                                265
Val Phe Tyr Thr Met Leu Pro Pro Thr Phe Asn Pro Ile Ile Tyr Ser
        275
                            280
                                                285
Leu Arg Asn Lys Ala Ile Lys Val Ala Leu Gly Met Leu Ile Lys Gly
                        295
Lys Leu Thr Lys Lys
305
<210> 1583
<211> 314
<212> PRT
<213> Unknown (H38g500 protein)
<220>
<223> Synthetic construct
<400> 1583
Met Gly Asp Val Asn Gln Ser Val Ala Ser Asp Phe Ile Leu Val Gly
                                    10
Leu Phe Ser His Ser Gly Ser Arg Gln Leu Leu Phe Ser Leu Val Ala
                                25
Val Met Phe Val Ile Gly Leu Leu Gly Asn Thr Val Leu Leu Phe Leu
                            40
                                                45
Ile Arg Val Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ser
Gln Leu Ser Leu Phe Asp Ile Gly Cys Pro Met Val Thr Ile Pro Lys
Met Ala Ser Asp Phe Leu Arg Gly Glu Gly Ala Thr Ser Tyr Gly Gly
                85
                                    90
Gly Ala Ala Gln Ile Phe Phe Leu Thr Leu Met Gly Val Ala Glu Gly
                                105
Val Leu Leu Val Leu Met Ser Tyr Asp Arg Tyr Val Ala Val Cys Gln
                            120
                                                125
Pro Leu Gln Tyr Pro Val Leu Met Arg Arg Gln Val Cys Leu Leu Met
                                            140
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Met Gly Ser Ser Trp Val Val Gly Val Leu Asn Ala Ser Ile Gln Thr
                   150
                                       155
Ser Ile Thr Leu His Phe Pro Tyr Cys Ala Ser Arg Ile Val Asp His
                                   170
               165
Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ser Cys Ala Asp Thr
                              185
           180
Cys Ala Tyr Glu Met Ala Leu Ser Thr Ser Gly Val Leu Ile Leu Met
                           200
       195
Leu Pro Leu Ser Leu Ile Ala Thr Ser Tyr Gly His Val Leu Gln Ala
                       215
                                           220
Val Leu Ser Met Arg Ser Glu Glu Ala Arg His Lys Ala Val Thr Thr
                   230
                                       235
Cys Ser Ser His Ile Thr Val Val Gly Leu Phe Tyr Gly Ala Ala Val
                                   250
               245
Phe Met Tyr Met Val Pro Cys Ala Tyr His Ser Pro Gln Gln Asp Asn
           260
                              265
Val Val Ser Leu Phe Tyr Ser Leu Val Thr Pro Thr Leu Asn Pro Leu
                          280
Ile Tyr Ser Leu Arg Asn Pro Glu Val Trp Met Ala Leu Val Lys Val
                    295
Leu Ser Arg Ala Gly Leu Arg Gln Met Cys
                   310
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<210> 1584

<211> 312

<212> PRT

<213> Unknown (H38g501 protein)

<220>

<223> Synthetic construct

<400> 1584

Met Asp Leu Lys Asn Gly Ser Leu Val Thr Glu Phe Ile Leu Leu Gly Phe Phe Gly Arg Trp Glu Leu Gln Ile Phe Phe Val Thr Phe Ser 25 Leu Ile Tyr Gly Ala Thr Val Met Gly Asn Ile Leu Ile Met Val Thr 40 45 Val Thr Cys Arg Ser Thr Leu His Ser Pro Leu Tyr Phe Leu Leu Gly 60 55 Asn Leu Ser Phe Leu Asp Met Cys Leu Ser Thr Ala Thr Thr Pro Lys Met Ile Ile Asp Leu Leu Thr Asp His Lys Thr Ile Ser Val Trp Gly 90 Cys Val Thr Gln Met Phe Phe Met His Phe Phe Gly Gly Ala Glu Met 100 105 Thr Leu Leu Ile Ile Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys 125 120 Pro Leu His Tyr Arg Thr Ile Met Ser His Lys Leu Leu Lys Gly Phe 135 140 Ala Ile Leu Ser Trp Ile Ile Gly Phe Leu His Ser Ile Ser Gln Ile 150 155 Val Leu Thr Met Asn Leu Pro Phe Cys Gly His Asn Val Ile Asn Asn 165 170 Ile Phe Cys Asp Leu Pro Leu Val Ile Lys Leu Ala Cys Ile Glu Thr 185 190 180 Tyr Thr Leu Glu Leu Phe Val Ile Ala Asp Ser Gly Leu Leu Ser Phe 200 205 Thr Cys Phe Ile Leu Leu Leu Val Ser Tyr Ile Val Ile Leu Val Ser 215 Val Pro Lys Lys Ser Ser His Gly Leu Ser Lys Ala Leu Ser Thr Leu

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230
                                        235
Ser Ala His Ile Ile Val Val Thr Leu Phe Phe Gly Pro Cys Ile Phe
                245
                                    250
Ile Tyr Val Trp Pro Phe Ser Ser Leu Ala Ser Asn Lys Thr Leu Ala
            260
                                265
Val Phe Tyr Thr Val Ile Thr Pro Leu Leu Asn Pro Ser Ile Tyr Thr
                            280
Leu Arg Asn Lys Lys Met Gln Glu Ala Ile Arg Lys Leu Arg Phe Gln
                        295
Tyr Val Ser Ser Ala Gln Asn Phe
<210> 1585
<211> 325
<212> PRT
<213> Unknown (H38g502 protein)
<220>
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<221> VARIANT
<222> (1)...(325)
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<400> 1585
Met Pro Thr Asp Lys Gln Met Glu Lys Gln Asn Gln Ser Met Val Pro
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Glu Phe Ile Leu Tyr Gly Ile Gln Lys Ser His Glu Leu Gln Ile Phe
                                25
Phe Ile Leu Phe Phe His Ser Leu His Ile Ala Xaa Leu Ser Asn Leu
                            40
                                                45
Ile Ile Ile Phe Val Val Lys Leu Asp Pro Gln Leu His Ser Pro Met
                      55
                                           60
Tyr Phe Leu Leu Ala Asn Leu Ser Ser Thr Asp Met Pro Leu Ala Ser
                                        75
Phe Ala Thr Pro Lys Lys Ile Asp Asn Val Ile Ser Glu Tyr Arg Thr
Ile Ser Tyr Glu Gly Cys Met Thr Xaa Arg Phe Phe Leu His Phe Leu
            100
                                105
Ser Gly Ser Glu Met Val Leu Leu Leu Ala Met Ala Ile Asp Arg Xaa
                            120
                                                125
Phe Ala Ile Cys Lys Pro Leu His Tyr Lys Ser Ile Ala Ser Asp Leu
                       135
                                            140
Leu Leu Ala Ser Trp Thr Met Asp Phe Met His Thr Met Ser Gln Ile
                   150
                                        155
Val Leu Thr Val Thr Leu Pro Phe Cys Gly Leu Ser Val Val Asp Ile
               165
                                    170
Phe Val Cys Asp Val Ile Cys Leu Val Ile Lys Leu Ala Cys Thr Asp
           180
                               185
                                                    190
Thr Tyr Ile Leu Glu Leu Xaa Val Ile Ala Asp Ser Gly Leu Leu Ser
                           200
                                                205
Leu Leu Cys Phe Met Phe Leu Leu Ile Ser Tyr Ser Thr Val Leu Ile
                       215
                                            220
Ile Ile Xaa His His Ser Ser Arg Gly Ser Ser Lys Thr Leu Ser Thr
                   230
                                        235
Leu Ser Ala His Ile Met Val Val Leu Phe Phe Gly Ala Cys Ile
               245
                                   250
Phe Thr Cys Glu Arg Pro Phe Ser Thr Val Ser Ile Asp Ser Val Phe
                              265
           260
                                                   270
Xaa Thr Ile Phe Ala Pro Leu Leu Asn Pro Ile Ile Tyr Thr Phe Arg
                            280
```

```
Asn Asn Asp Met Lys Lys Ala Leu Arg Lys Met Lys Ile Asn Phe Val
                   295
                                   300
Ser Ser Arg Ser Thr Xaa Xaa Leu Lys Tyr Tyr Asn His Xaa Lys His
                           315
              310
His His Tyr Cys Cys
<210> 1586
<211> 312
<212> PRT
<213> Unknown (H38g503 protein)
<223> Synthetic construct
<400> 1586
Met Asp Glu Ala Asn His Ser Val Val Ser Glu Phe Val Phe Leu Gly
            5
                          10
Leu Ser Asp Ser Arg Lys Ile Gln Leu Leu Leu Phe Leu Phe Phe Ser
                            25
          20
Val Phe Tyr Val Ser Ser Leu Met Gly Asn Leu Leu Ile Val Leu Thr
            . 40
   35
Val Thr Ser Asp Pro Arg Leu Gln Ser Pro Met Tyr Phe Leu Leu Ala
                                         60
Asn Leu Ser Ile Ile Asn Leu Val Phe Cys Ser Ser Thr Ala Pro Lys
                                    75
                  70
Met Ile Tyr Asp Leu Phe Arg Lys His Lys Thr Ile Ser Phe Gly Gly
                                 90
              85
Cys Val Val Gln Ile Phe Phe Ile His Ala Val Gly Gly Thr Glu Met
                             105
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys
                                            125
                         120
Pro Leu His Tyr Leu Thr Ile Met Asn Pro Gln Arg Cys Ile Leu Phe
                      135
                                         140
Leu Val Ile Ser Trp Ile Ile Gly Ile Ile His Ser Val Ile Gln Leu
                  150
                                     155
Ala Phe Val Val Asp Leu Leu Phe Cys Gly Pro Asn Glu Leu Asp Ser
                                 170
              165
Phe Phe Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Ile Glu Thr
                             185
                                                190
          180
Tyr Thr Leu Gly Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu
                                             205
                         200
Ala Ser Phe Leu Ile Leu Ile Ile Ser Tyr Ile Phe Ile Leu Val Thr
                                         220
                     215
Val Gln Lys Lys Ser Ser Gly Gly Ile Phe Lys Ala Phe Ser Met Leu
                                     235
                  230
Ser Ala His Val Ile Val Val Val Leu Val Phe Gly Pro Leu Ile Phe
                                  250
Phe Tyr Ile Phe Pro Phe Pro Thr Ser His Leu Asp Lys Phe Leu Ala
                              265
           260
Ile Phe Asp Ala Val Ile Thr Pro Val Leu Asn Pro Val Ile Tyr Thr
                                            285
                          280
Phe Arg Asn Lys Glu Met Met Val Ala Met Arg Arg Arg Cys Ser Gln
                      295
                                         300
Phe Val Asn Tyr Ser Lys Ile Phe
                  310
<210> 1587
<211> 322
<212> PRT
<213> Unknown (H38g504 protein)
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<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(322)
<223> Xaa = Any Amino Acid
<400> 1587
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Leu Ser Asn Ser Trp Glu Ile Lys Ile Phe Leu Phe Cys Phe Ser Cys
                              25
Leu Phe Tyr Val Ser Gly Val Met Ala Asn Leu Ile Val Val Ile
                           40
                                               45
Val Thr Ser Asp Pro Tyr Leu His Ser Ser Leu Tyr Ile Leu Leu Ala
                      55
                                          60
Asn Leu Ser Val Ile Asp Leu Thr Phe Cys Ser Ile Ala Ala Arg Lys
                                      75
                  70
Met Ile Cys Asp Ile Phe Arg Lys Gln Lys Val Ile Ser Phe Trp Gly
                                  90
               85
Cys Val Ala Gln Ile Phe Phe Ser His Ala Val Gly Gly Thr Glu Met
                               105
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Val Cys Lys
                           120
Pro Leu His Tyr Leu Thr Ile Met His Pro Arg Met Cys Ile Leu Ile
                                           140
                       135
Leu Val Ala Ser Trp Ala Ile Gly Leu Ile His Ser Leu Val Gln Leu
                   150
                                       155
Ser Phe Val Val Asn Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Ser
                                   170
               165
Phe Tyr Cys Asp Ile Pro Gln Leu Ile Lys Leu Ala Cys Thr Asn Thr
                               185
           1.80
Tyr Lys Leu Gln Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu
                                               205
                           200
Ser Ala Phe Phe Leu Leu Ile Leu Ser Tyr Ile Phe Ile Leu Ala Thr
                       215
                                           220
Leu Gln Lys His Ser Ser Gly Gly Ser Ser Lys Ala Val Ser Thr Leu
                  230
                                       235
Ser Ala His Ile Thr Val Val Val Leu Phe Phe Gly Pro Leu Ile Phe
               245
                                  250
Phe Tyr Val Trp Pro Ser Pro Pro Thr His Leu Asn Lys Phe Leu Ala
                              265
           260
Ile Phe Asp Ala Ile Phe Thr Pro Phe Leu Asn Pro Val Ile Tyr Thr
       275
                          280
Phe Arg Asn Arg Glu Met Lys Ile Ala Ile Arg Arg Val Phe Gly Gln
                                           300
                       295
Phe Met Gly Phe Arg Lys Thr Thr Xaa Val Ala Leu Leu Lys His Arg
                  310
                                      315
Ile Ser
<210> 1588
<211> 291
<212> PRT
<213> Unknown (H38g505 protein)
<223> Synthetic construct
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<400> 1588

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Met Val Gly Ala Asn His Ser Val Val Ser Glu Phe Val Phe Leu Gly
                                      10
 Leu Thr Asn Ser Trp Glu Ile Arg Leu Leu Leu Leu Val Phe Ser Ser
 Met Phe Tyr Met Ala Ser Met Met Gly Asn Ser Leu Ile Leu Leu Thr
                             40
 Val Thr Ser Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
                         55
                                             60
 Asn Leu Ser Phe Ile Asp Leu Gly Val Ser Ser Val Thr Ser Pro Lys
                     70
 Met Ile Tyr Asp Leu Phe Arg Lys His Glu Val Ile Ser Phe Gly Gly
                 85
                                     90
 Cys Ile Ala Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met
                                 105
 Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys
                             120
                                                 125
 Pro Leu Gln Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Met Phe Phe
                         135
                                             140
 Leu Val Ala Ala Trp Val Thr Gly Leu Ile His Ser Val Val Gln Leu
                     150
                                         155
 Val Phe Val Val Asn Leu Pro Phe Cys Gly Pro Asn Val Ser Asp Ser
                 165
                                     170
 Phe Tyr Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Thr Asp Ser
                                 185
 Tyr Arg Leu Glu Phe Met Val Thr Ala Asn Ser Gly Phe Ile Ser Leu
                             200
                                                 205
 Gly Ser Phe Phe Ile Leu Ile Ile Ser Tyr Val Val Ile Ile Leu Thr
                        215
                                             220
Val Leu Lys His Ser Ser Ala Gly Leu Ser Lys Ala Leu Ser Thr Leu
                    230
                                         235
Ser Ala His Val Ser Val Val Val Leu Phe Phe Gly Pro Leu Ile Phe
                245
                                    250
Val Tyr Thr Trp Pro Ser Pro Ser Thr His Leu Asp Lys Phe Leu Ala
            260
                                265
                                                    270
Ile Phe Asp Ala Val Leu Thr Pro Val Leu Asn Pro Ile Ile Tyr Thr
        275
                            280
Phe Arg Asn
    290
<210> 1589
<211> 312
<212> PRT
<213> Unknown (H38g506 protein)
<220>
<223> Synthetic construct
<400> 1589
Met Asn Gly Met Asn His Ser Val Val Ser Glu Phe Val Phe Met Gly
                                    10
Leu Thr Asn Ser Arg Glu Ile Gln Leu Leu Leu Phe Val Phe Ser Leu
Leu Phe Tyr Phe Ala Ser Met Met Gly Asn Leu Val Ile Val Phe Thr
                            40
Val Thr Met Asp Ala His Leu His Ser Pro Met Tyr Phe Leu Leu Ala
                        55
                                            60
```

90

75

Asn Leu Ser Ile Ile Asp Met Ala Phe Cys Ser Ile Thr Ala Pro Lys

Met Ile Cys Asp Ile Phe Lys Lys His Lys Ala Ile Ser Phe Arg Gly

Cys Ile Thr Gln Ile Phe Phe Ser His Ala Leu Gly Gly Thr Glu Met

70

85

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105
Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Met Ala Ile Cys Lys
                          120
                                              125
Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Tyr Phe
                      135
                                          140
Leu Ala Thr Ser Ser Ile Ile Gly Leu Ile His Ser Leu Val Gln Leu
                                      155
Val Phe Val Val Asp Leu Pro Phe Cys Gly Pro Asn Ile Phe Asp Ser
                                  170
              165
Phe Tyr Cys Asp Leu Pro Arg Leu Leu Arg Leu Ala Cys Thr Asn Thr
                                                  190
          180
                           185
Gln Glu Leu Glu Phe Met Val Thr Val Asn Ser Gly Leu Ile Ser Val
                          200
Gly Ser Phe Val Leu Leu Val Ile Ser Tyr Ile Phe Ile Leu Phe Thr
                                           220
                      215
Val Trp Lys His Ser Ser Gly Gly Leu Ala Lys Ala Leu Ser Thr Leu
                                       235
                  230
Ser Ala His Val Thr Val Val Ile Leu Phe Phe Gly Pro Leu Met Phe
                                   250
               245
Phe Tyr Thr Trp Pro Ser Pro Thr Ser His Leu Asp Lys Tyr Leu Ala
                               265
                                                   270
           260
Ile Phe Asp Ala Phe Ile Thr Pro Phe Leu Asn Pro Val Ile Tyr Thr
                           280
                                              285
Phe Arg Asn Lys Asp Met Lys Val Ala Met Arg Arg Leu Cys Ser Arg
                                           300
                       295
Leu Ala His Phe Thr Lys Ile Leu
                   310
<210> 1590
<211> 327
<212> PRT
<213> Unknown (H38g507 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(327)
<223> Xaa = Any Amino Acid
<400> 1590
Met Glu Gln Arg Lys Asn Val Thr Glu Phe Val Leu Val Gly Leu Thr
                                   10
Gln Ser Pro Gln Gly Gln Lys Ile Leu Phe Leu Val Phe Leu Leu Ile
                               25
Tyr Val Val Thr Met Val Gly Asn Ile Phe Ile Val Val Thr Val Val
                           40
Val Ser Pro Thr Leu Gly Cys Pro Met Tyr Phe Phe Leu Gly Tyr Leu
                       55
Ser Phe Met Asp Ala Val His Ser Thr Thr Val Thr Pro Asn Met Ile
                                       75
                   70
Ile Asp Leu Leu Tyr Glu Lys Lys Thr Ile Ser Phe Gln Ala Cys Ile
                                   90
Thr Gln Ile Phe Ile Gly His Leu Phe Gly Gly Ala Glu Ile Leu Leu
                               105
           100
Leu Val Val Met Ala Tyr Asp Gly Tyr Val Thr Ile Cys Lys Pro Leu
                          120
                                              125
His Tyr Leu Thr Ile Met Asn Gln Arg Val Cys Ile Leu Leu Leu
                      135
                                          140
Leu Ala Trp Ala Gly Gly Phe Leu His Ala Val Val Gln Leu Leu Phe
                                      155
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Val Tyr Asn Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Ile 165 170 Cys Asp Met Tyr Pro Leu Leu Lys Leu Ala Cys Thr Asp Thr Tyr Val 185 180 Thr Gly Leu Thr Val Val Ala Asn Asp Gly Ala Ile Cys Val Val Ile 195 200 Phe Met Leu Leu Phe Ser Tyr Gly Val Ile Leu His Ser Leu Lys 215 220 Asn Leu Ser Gln Glu Gly Arg His Lys Ala Leu Ser Thr Cys Gly Ser 230 235 His Ile Thr Val Val Ile Leu Phe Phe Val Pro Cys Ile Phe Met Tyr 245 250 Val Arg Pro Pro Leu Thr Leu Pro Ile Asp Lys Ser Leu Thr Val Phe 265 Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg 280 285 Asn Ala Glu Met Lys Asn Ala Met Lys Lys Leu Trp Thr Arg Lys Arg 295 300 Lys Xaa Gly Gly Asp Lys Cys Ile Ile Tyr Phe Gln Xaa Arg Val Ala 310 315 Pro Ser Arg Lys Ala Ile Cys

<210> 1591

<211> 306

<212> PRT

<213> Unknown (H38g508 protein)

<220>

<223> Synthetic construct

<400> 1591

Met Asn Leu Lys Asn Gly Ser Leu Val Thr Glu Phe Ile Leu Leu Gly 10 Phe Phe Gly Arg Trp Glu Leu Gln Ile Phe Phe Phe Val Thr Phe Ser 25 Leu Ile Tyr Gly Ala Thr Val Val Gly Asn Ile Leu Ile Met Val Thr 40 Val Thr Cys Ser Ser Thr Leu His Ser Pro Leu Tyr Phe Leu Leu Gly 55 Asn Leu Ser Phe Leu Asp Met Cys Leu Ser Thr Ala Thr Thr Pro Lys 70 75 Met Asp His Lys Thr Ile Ser Val Trp Gly Cys Val Thr Gln Lys Phe 85 90 Phe Met His Phe Phe Gly Ser Ala Glu Met Thr Leu Leu Ile Ile Met 105 Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Arg Thr 120 125 Ile Met Ser His Lys Leu Leu Lys Gly Phe Ala Ile Leu Ser Trp Ile 135 140 Ile Gly Phe Leu His Ser Ile Ser Gln Ile Val Leu Thr Met Asn Leu 150 155 Pro Phe Cys Gly His Asn Val Ile Asn Asn Ile Phe Cys Asp Leu Pro 165 170 Leu Val Ile Lys Leu Ala Cys Ile Glu Thr Tyr Thr Leu Glu Leu Phe 185 190 Val Ile Ala Asp Ser Gly Leu Leu Ser Phe Thr Cys Phe Ile Leu Leu 195 200 Leu Val Ser Tyr Ile Val Ile Leu Val Ser Val Pro Lys Lys Ser Ser 215 220 His Gly Leu Ser Lys Ala Leu Ser Thr Leu Ser Ala His Ile Ile Val

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230
                                        235
Val Thr Leu Phe Phe Gly Pro Cys Ile Phe Ile Tyr Val Trp Pro Phe
                245
                                    250
Ser Ser Leu Ala Ser Asn Lys Thr Leu Ala Val Phe Tyr Thr Val Ile
            260
                                265
Thr Pro Leu Leu Asn Pro Ser Ile Tyr Thr Leu Arg Asn Lys Lys Met
                            280
                                                285
Gln Glu Ala Ile Arg Lys Leu Arg Phe Gln Tyr Val Ser Ser Ala Gln
                        295
Asn Phe
305
<210> 1592
<211> 336
<212> PRT
<213> Unknown (H38g509 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(336)
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Ser Thr Asp Pro Gln Asn Leu Thr Asp Val Ser Ile Phe Leu Leu Leu
                                    10
Gly Thr Ser Glu Asp Pro Glu Xaa Gln Pro Val Leu Ala Gly Leu Phe
            20
                                25
Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
                            40
Ala Val Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Ile Phe Phe
                        55
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
                    70
                                        75
Lys Met Thr Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala
                                    90
Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
                                105
Glu Asn Met Phe Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Ile
                            120
                                                125
Cys His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly
                       135
                                            140
Phe Leu Val Leu Leu Ser Phe Phe Phe Ser Leu Ser Leu Leu Asp Val
                    150
                                        155
Gln Leu Arg Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val
                165
                                    170
Glu Ile Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala
                                185
Cys Cys Asp Thr Phe Thr Asn Asn Ile Ile Leu Tyr Phe Pro Ala Ala
                            200
                                                205
Ile Phe Gly Phe Leu Pro Ile Leu Gly Thr Leu Phe Ser Tyr Tyr Lys
                        215
                                            220
Ile Val Phe Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys
                   230
                                        235
Ala Phe Ser Thr Cys Val Ser His Leu Ser Val Val Cys Xaa Phe Tyr
               245
                                    250
Gly Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro
                               265
                                                    270
Arg Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met
                            280
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Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Ser Val
                       295
Leu Arg Arg Pro His Ser Ser Thr Val Xaa Ser Xaa Tyr Leu Leu Ile
                  310
                                       315
Cys Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Ser Lys Val Lys
                                   330
<210> 1593
<211> 319
<212> PRT
<213> Unknown (H38g510 protein)
<220>
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Met Met Glu Ile Ala Asn Val Ser Ser Pro Glu Val Phe Val Leu Leu
                            10
            5
Gly Phe Ser Thr Arg Pro Ser Leu Glu Thr Val Leu Phe Ile Val Val
                               25
Leu Ser Phe Tyr Met Val Ser Ile Leu Gly Asn Gly Ile Ile Ile Leu
                                               45
                          40
Val Ser His Thr Asp Val His Leu His Thr Pro Met Tyr Phe Phe Leu
                                           60
                       55
Ala Asn Leu Pro Phe Leu Asp Met Ser Phe Thr Thr Ser Ile Val Pro
                                       75
                   70
Gln Leu Leu Ala Asn Leu Trp Gly Pro Gln Lys Thr Ile Ser Tyr Gly
                                   90
Gly Cys Val Val Gln Phe Tyr Ile Ser His Trp Leu Gly Ala Thr Glu
                               105
Cys Val Leu Leu Ala Thr Met Ser Tyr Asp Arg Tyr Ala Ala Ile Cys
                           120
                                               125
Arg Pro Leu His Tyr Thr Val Ile Met His Pro Gln Leu Cys Leu Gly
                                           140
                       135
Leu Ala Leu Ala Ser Trp Leu Gly Gly Leu Thr Thr Ser Met Val Gly
                                       155
                  150
Ser Thr Leu Thr Met Leu Leu Pro Leu Cys Gly Asn Asn Cys Ile Asp
                                   170
               165
His Phe Phe Cys Glu Met Pro Leu Ile Met Gln Leu Ala Cys Val Asp
                              185
                                                  190
           180
Thr Ser Leu Asn Glu Met Glu Met Tyr Leu Ala Ser Phe Val Phe Val
                           200
                                               205
      195
Val Leu Pro Leu Gly Leu Ile Leu Val Ser Tyr Gly His Ile Ala Arg
                                           220
                      215
Ala Val Leu Lys Ile Arg Ser Ala Glu Gly Arg Arg Lys Ala Phe Asn
                                       235
                   230
Thr Cys Ser Ser His Val Ala Val Val Ser Leu Phe Tyr Gly Ser Ile
               245
                                   250
Ile Phe Met Tyr Leu Gln Pro Ala Lys Ser Thr Ser His Glu Gln Gly
                                                   270
                               265
Lys Phe Ile Ala Leu Phe Tyr Thr Val Val Thr Pro Ala Leu Asn Pro
                                               285
       275
                           280
Leu Ile Tyr Thr Leu Arg Asn Thr Glu Val Lys Ser Ala Leu Arg His
                       295
                                           300
Met Val Leu Glu Asn Cys Cys Gly Ser Ala Gly Lys Leu Ala Gln
                   310
<210> 1594
<211> 304
<212> PRT
<213> Unknown (H38g511 protein)
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Ser Leu Leu Asp Leu Cys Phe Ile Ser Val Thr Val Pro Gln Ser Ile
                   70
                                       75
65
Ala Asn Ser Leu Met Gly Asn Gly Tyr Ile Ser Leu Val Gln Cys Ile
                                   90
Leu Gln Val Phe Phe Phe Ile Ala Leu Ala Ser Ser Glu Val Ala Ile
                               105
Leu Thr Val Met Ser Tyr Asp Arg Tyr Ala Ala Ile Cys Gln Pro Leu
                           120
                                                125
His Tyr Glu Thr Ile Met Asp Pro Arg Ala Cys Arg His Ala Val Ile
                       135
                                           140
Ala Val Trp Ile Ala Gly Gly Leu Ser Gly Leu Met His Ala Ala Ile
                                       155
                   150
Asn Phe Ser Ile Pro Leu Cys Gly Lys Arg Val Ile His Gln Phe Phe
               165
                                   170
Cys Asp Val Pro Gln Met Leu Lys Leu Ala Cys Ser Tyr Glu Phe Ile
                               185
           180
Asn Glu Ile Ala Leu Ala Ala Phe Thr Thr Ser Ala Ala Phe Ile Cys
                           200
       195
Leu Ile Ser Ile Val Leu Ser Tyr Ile Arg Ile Phe Ser Thr Val Leu
                      215
                                           220
Arg Ile Pro Ser Ala Glu Gly Arg Thr Lys Val Phe Ser Thr Cys Leu
                                       235
                   230
Pro His Leu Phe Val Ala Thr Phe Phe Leu Ser Ala Ala Gly Phe Glu
                                   250
               245
Phe Leu Arg Leu Pro Ser Asp Ser Ser Ser Thr Val Asp Leu Val Phe
                               265
                                                   270
           260
Ser Val Phe Tyr Thr Val Ile Pro Pro Thr Leu Asn Pro Val Ile Tyr
                                               285
                       . 280
Ser Leu Arg Asn Asp Ser Met Lys Ala Ala Leu Arg Lys Met Leu Ser
                      295
Lys Glu Glu Leu Pro Gln Arg Lys Met Cys Leu Lys Ala Met Phe Lys
Leu
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- <210> 1596
- <211> 310
- <212> PRT
- <213> Unknown (H38g513 protein)
- <220>
- <223> Synthetic construct
- <400> 1596
- Met Asp Pro Gln Asn Tyr Ser Leu Val Ser Glu Phe Val Leu His Gly
  1 5 10 15
- Leu Cys Thr Ser Arg His Leu Gln Asn Phe Phe Phe Ile Phe Phe Phe 20 25 30
- Gly Val Tyr Val Ala Ile Met Leu Gly Asn Leu Leu Ile Leu Val Thr
- Val Ile Ser Asp Pro Cys Leu His Ser Ser Pro Met Tyr Phe Leu Leu 50 55 60
- Gly Asn Leu Ala Phe Leu Asp Met Trp Leu Ala Ser Phe Ala Thr Pro
- Lys Met Ile Arg Asp Phe Leu Ser Asp Gln Lys Leu Ile Ser Phe Gly
  . 85 90 95
- Gly Cys Met Ala Gln Ile Phe Phe Leu His Phe Thr Gly Gly Ala Glu 100 105 110
- Met Val Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys 115 120 125
- Lys Pro Leu His Tyr Met Thr Leu Met Ser Trp Gln Thr Cys Ile Arg

```
140
                       135
   130
Leu Val Leu Ala Ser Trp Val Val Gly Phe Val His Ser Ile Ser Gln
                                  155
           150
Val Ala Phe Thr Val Asn Leu Pro Tyr Cys Gly Pro Asn Glu Val Asp
                                 170
              165
Ser Phe Phe Cys Asp Leu Pro Leu Val Ile Lys Leu Ala Cys Met Asp
                                                 190
                             185
          180
Thr Tyr Val Leu Gly Ile Ile Met Ile Ser Asp Ser Gly Leu Leu Ser
                          200
                                              205
Leu Ser Cys Phe Leu Leu Leu Leu Ile Ser Tyr Thr Val Ile Leu Leu
                      215
                                          220
Ala Ile Arg Gln Arg Ala Ala Gly Ser Thr Ser Lys Ala Leu Ser Thr
                                      235
                   230
Cys Ser Ala His Ile Met Val Val Thr Leu Phe Phe Gly Pro Cys Ile
                                  250
Phe Val Tyr Val Arg Pro Phe Ser Arg Phe Ser Val Asp Lys Leu Leu
                               265
                                                  270
Ser Val Phe Tyr Thr Ile Phe Thr Pro Leu Leu Asn Pro Ile Ile Tyr
                                              285
                           280
Thr Leu Arg Asn Glu Glu Met Lys Ala Ala Met Lys Lys Leu Gln Asn
                               . 300
                       295
Arg Arg Val Thr Phe Gln
<210> 1597
<211> 319
<212> PRT
<213> Unknown (H38g514 protein)
<223> Synthetic construct
<400> 1597
Met Glu Arg Lys Asn Gln Thr Ala Ile Thr Glu Phe Ile Ile Leu Gly
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Phe Ser Asn Leu Asn Glu Leu Gln Phe Leu Leu Phe Thr Ile Phe Phe
2.0
                              25
Leu Thr Tyr Phe Cys Thr Leu Gly Gly Asn Ile Leu Ile Ile Leu Thr
       35
                           40
Thr Val Thr Asp Pro His Leu His Thr Pro Met Tyr Tyr Phe Leu Gly
                                          60
Asn Leu Ala Phe Ile Asp Ile Cys Tyr Thr Thr Ser Asn Val Pro Gln
                   70
                                      75
Met Met Val His Leu Leu Ser Lys Lys Ser Ile Ser Tyr Val Gly
                                  90
Cys Val Val Gln Leu Phe Ala Phe Val Phe Phe Val Gly Ser Glu Cys
                              105
          100
Leu Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Asn
                          120
      115
Pro Leu Arg Tyr Ser Val Ile Leu Ser Lys Val Leu Cys Asn Gln Leu
                      135
Ala Ala Ser Cys Trp Ala Ala Gly Phe Leu Asn Ser Val Val His Thr
                                      155
Val Leu Thr Phe Cys Leu Pro Phe Cys Gly Asn Asn Gln Ile Asn Tyr
                                  170
Phe Phe Cys Asp Ile Pro Pro Leu Leu Ile Leu Ser Cys Gly Asn Thr
                              185
Ser Val Asn Glu Leu Ala Leu Leu Ser Thr Gly Val Phe Ile Gly Trp
                                              205
                          200
Thr Pro Phe Leu Cys Ile Val Leu Ser Tyr Ile Cys Ile Ile Ser Thr
                      215
```

```
Ile Leu Arg Ile Gln Ser Ser Glu Gly Arg Arg Lys Ala Phe Ser Thr
                                       235
                   230
Cys Ala Ser His Leu Ala Ile Val Phe Leu Phe Tyr Gly Ser Ala Ile
                                   250
               245
Phe Thr Tyr Val Arg Pro Ile Ser Thr Tyr Ser Leu Lys Lys Asp Arg
                               265
Leu Val Ser Val Leu Tyr Ser Val Val Thr Pro Met Leu Asn Pro Ile
                           280
                                              285
Ile Tyr Thr Leu Arg Asn Lys Asp Ile Lys Glu Ala Val Lys Thr Ile
                                           300
                       295
Gly Ser Lys Trp Gln Pro Pro Ile Ser Ser Leu Asp Ser Lys Leu
                   310
<210> 1598
<211> 303
<212> PRT
<213> Unknown (H38g515 protein)
<223> Synthetic construct
<400> 1598
Met Arg Glu Phe Phe Leu Ser Gly Phe Ser Gln Thr Pro Ser Ile Glu
                           10
            5
Ala Gly Leu Phe Val Leu Phe Leu Phe Phe Tyr Met Ser Ile Trp Val
          20
                               25
Gly Asn Val Leu Ile Met Val Thr Val Ala Ser Asp Lys Tyr Leu Asn
                                               45
                           40
Ser Ser Pro Met Tyr Phe Leu Leu Gly Asn Leu Ser Phe Leu Asp Leu
                       55
Cys Tyr Ser Thr Val Thr Thr Pro Lys Leu Leu Ala Asp Phe Phe Asn
                                       75
65
                   70
His Glu Lys Leu Ile Ser Tyr Asp Gln Cys Ile Val Gln Leu Phe Phe
                                   90
Leu His Phe Val Gly Ala Ala Glu Met Phe Leu Leu Thr Val Met Ala
                                                  110
           100
                               105
Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu His Tyr Thr Thr Val
                           120
                                               125
Met Ser Arg Gly Leu Cys Cys Val Leu Val Ala Ala Ser Trp Met Gly
                       135
                                           140
Gly Phe Val His Ser Thr Val Gln Thr Ile Leu Thr Val His Leu Pro
                                       155
                   150
Phe Cys Gly Pro Asn Gln Val Glu Asn Phe Phe Cys Asp Val Pro Pro
               165
                                   170
Val Ile Lys Leu Ala Cys Ala Asp Thr Phe Val Ile Glu Leu Leu Met
                                                  190
                            · 185
Val Ser Asn Ser Gly Leu Ile Ser Thr Ile Ser Phe Val Val Leu Ile
                                               205
                           200
Ser Ser Tyr Thr Thr Ile Leu Val Lys Ile Arg Ser Lys Glu Gly Arg
                       215
                                           220
Arg Lys Ala Leu Ser Thr Cys Ala Ser His Leu Met Val Val Thr Leu
                                       235
                   230
Phe Phe Gly Pro Cys Ile Phe Ile Tyr Ala Arg Pro Phe Ser Thr Phe
                                   250
Ser Val Asp Lys Met Val Ser Val Leu Tyr Asn Val Ile Thr Pro Met
                               265
           260
Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Lys Glu Val Lys Ser Ala
                                               285
                           280
Met Gln Lys Leu Trp Val Arg Asn Gly Leu Thr Trp Lys Lys Gln
                       295
                                           300
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<210> 1599
<211> 315
<212> PRT
<213> Unknown (H38g516 protein)
<220>
<223> Synthetic construct
<400> 1599
Met Glu Asn Val Thr Thr Met Asn Glu Phe Leu Leu Gly Leu Thr
                                    10
Gly Val Gln Glu Leu Gln Pro Phe Phe Gly Ile Phe Leu Ile Ile
           20
                               25
Tyr Leu Ile Asn Leu Ile Gly Asn Gly Ser Ile Leu Val Met Val Val
                            40
Leu Glu Pro Gln Leu His Ser Pro Met Tyr Phe Phe Leu Gly Asn Leu
                                            60
                        55
Ser Cys Leu Asp Ile Ser Tyr Ser Ser Val Thr Leu Pro Lys Leu Leu
                    70
                                        75
Val Asn Leu Val Cys Ser Arg Arg Ala Ile Ser Phe Leu Gly Cys Ile
                                    90
Thr Gln Leu His Phe Phe His Phe Leu Gly Ser Thr Glu Ala Ile Leu
                                105
Leu Ala Ile Met Ala Phe Asp Arg Phe Val Ala Ile Cys Asn Pro Leu
                            120
                                                125
Arg Tyr Thr Val Ile Met Asn Pro Gln Val Cys Ile Leu Leu Ala Ala
                        135
                                            140
Ala Ala Trp Leu Ile Ser Phe Phe Tyr Ala Leu Met His Ser Val Met
                    150
                                        155
Thr Ala His Leu Ser Phe Cys Gly Ser Gln Lys Leu Asn His Phe Phe
                165
                                    170
Tyr Asp Val Lys Pro Leu Leu Glu Leu Ala Cys Ser Asp Thr Leu Leu
                                185
Asn Gln Trp Leu Leu Ser Ile Val Thr Gly Ser Ile Ser Met Gly Ala
                           200
                                                205
Phe Phe Leu Thr Leu Leu Ser Cys Phe Tyr Val Ile Gly Phe Leu Leu
                       215
                                           220
Phe Lys Asn Arg Ser Cys Arg Ile Leu His Lys Ala Leu Ser Thr Cys
                   230
                                        235
Ala Ser His Phe Met Val Val Cys Leu Phe Tyr Gly Pro Val Gly Phe
               245
                                    250
Thr Tyr Ile Arg Pro Ala Ser Ala Thr Ser Met Ile Gln Asp Arg Ile
                                                    270
           260
                                265
Met Ala Ile Met Tyr Ser Ala Val Thr Pro Val Leu Asn Pro Leu Ile
       275
                            280
                                                285
Tyr Thr Leu Arg Asn Lys Glu Val Met Met Ala Leu Lys Lys Ile Phe
                       295
                                           300
Gly Arg Lys Leu Phe Lys Asp Trp Gln Gln His
                   310
<210> 1600
<211> 322
<212> PRT
<213> Unknown (H38g517 protein)
<223> Synthetic construct
<400> 1600
Met Asn Glu Thr Asn His Ser Arg Val Thr Glu Phe Val Leu Leu Gly
                                   10
```

```
Leu Ser Ser Ser Arg Glu Leu Gln Pro Phe Leu Phe Leu Thr Phe Ser
                                 25
 Leu Leu Tyr Leu Ala Ile Leu Leu Gly Asn Phe Leu Ile Ile Leu Thr
                             40
 Val Thr Ser Asp Ser Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ala
                        55
                                            60
 Asn Leu Ser Phe Ile Asp Val Cys Val Ala Ser Phe Ala Thr Pro Lys
                    70
                                        75
 Met Ile Ala Asp Phe Leu Val Glu Arg Lys Thr Ile Ser Phe Asp Ala
                85
                                    90
 Cys Leu Ala Gln Ile Phe Phe Val His Leu Phe Thr Gly Ser Glu Met
            100
                               105
 Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
        115
                            120
 Pro Leu His Tyr Met Thr Val Met Ser Arg Arg Val Cys Val Val Leu
                        135
                                           140
Val Leu Ile Ser Trp Phe Val Gly Phe Ile His Thr Thr Ser Gln Leu
                    150
                                       155
Ala Phe Thr Val Asn Leu Pro Phe Cys Gly Pro Asn Lys Val Asp Ser
                                    170
Phe Phe Cys Asp Leu Pro Leu Val Thr Lys Leu Ala Cys Ile Asp Thr
            180
                                185
Tyr Val Val Ser Leu Leu Ile Val Ala Asp Ser Gly Phe Leu Ser Leu
                            200
                                                205
Ser Ser Phe Leu Leu Val Val Ser Tyr Thr Val Ile Leu Val Thr
                        215
                                            220
Val Arg Asn Arg Ser Ser Ala Ser Met Ala Lys Ala Arg Ser Thr Leu
                   230
                                       235
Thr Ala His Ile Thr Val Val Thr Leu Phe Phe Gly Pro Cys Ile Phe
               245
                                   250
Ile Tyr Val Trp Pro Phe Ser Ser Tyr Ser Val Asp Lys Val Leu Ala
            260
                               265
Val Phe Tyr Thr Ile Phe Thr Leu Ile Leu Asn Pro Val Ile Tyr Thr
       275
                           280
                                              285
Leu Arg Asn Lys Glu Val Lys Ala Ala Met Ser Lys Leu Lys Ser Arg
                       295
                                           300
Tyr Leu Lys Pro Ser Gln Val Ser Val Val Ile Arg Asn Val Leu Phe
                  310
                                       315
Leu Glu
```

```
<210> 1601
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## <400> 1601

<sup>&</sup>lt;211> 197

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Unknown (H38g518 protein)

<sup>&</sup>lt;220>

<sup>&</sup>lt;223> Synthetic construct

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90
               85
Val Ile Arg Gly Leu Leu Met Leu Thr Pro Met Val Ala Leu Leu Ile
                               105
           100
Arg Leu Ser Tyr Cys His Ser Arg Val Leu His His Ser Tyr Cys Tyr
                                               125
                           120
His Pro Asp Val Met Lys Phe Ser Cys Thr Asp Ala Arg Ile Asn Ser
                       135
                                           140
Ala Val Gly Leu Thr Ala Met Phe Ser Thr Val Gly Val Asp Leu Leu
                                       155
                   150
Leu Ile Leu Leu Ser Tyr Val Leu Ile Ile Arg Thr Val Leu Asn Val
                                   170
Ala Ser Pro Glu Glu Arg Arg Lys Pro Phe Ser Thr Cys Val Ser His
                              185
           180
Ile Gly Gly Phe Cys
       195
<210> 1602
<211> 313
<212> PRT
<213> Unknown (H38g519 protein)
<220>
<223> Synthetic construct
<400> 1602
Met Ser Pro Glu Asn Gln Ser Ser Val Ser Glu Phe Leu Leu Gly
Leu Pro Ile Arg Pro Glu Gln Gln Ala Val Phe Phe Thr Leu Phe Leu
                                25
Gly Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Met Leu Leu
                            40
        35
Ile Gln Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
                                            60
                        55
His Leu Ala Leu Thr Asp Ile Ser Phe Ser Ser Val Thr Val Pro Lys
                                        75
                    70
Met Leu Met Asp Met Arg Thr Lys Tyr Lys Ser Ile Leu Tyr Glu Glu
                                    90
Cys Ile Ser Gln Met Tyr Phe Phe Ile Phe Phe Thr Asp Leu Asp Ser
                                105
Phe Leu Ile Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
                            120
Pro Leu His Tyr Thr Val Ile Met Arg Glu Glu Leu Cys Val Phe Leu
                                            140
                        135
Val Ala Val Ser Trp Ile Leu Ser Cys Ala Ser Ser Leu Ser His Thr
                                        155
                    150
Leu Leu Leu Thr Arg Leu Ser Phe Cys Ala Ala Asn Thr Ile Pro His
                                    170
                165
Val Phe Cys Asp Leu Ala Ala Leu Leu Lys Leu Ser Cys Ser Asp Ile
                                185
            180
Phe Leu Asn Glu Leu Val Met Phe Thr Val Gly Val Val Val Ile Thr
                                                205
                            200
Leu Pro Phe Met Cys Ile Leu Val Ser Tyr Gly Tyr Ile Gly Ala Thr
                                            220
                        215
Ile Leu Arg Val Pro Ser Thr Lys Gly Ile His Lys Ala Leu Ser Thr
                                        235
                    230
Cys Gly Ser His Leu Ser Val Val Ser Leu Tyr Tyr Gly Ser Ile Phe
                                    250
                245
Gly Gln Tyr Leu Phe Pro Thr Val Ser Ser Ser Ile Asp Lys Asp Val
                                265
                                                    270
Ile Val Ala Leu Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe
                            280
```

```
Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu Gly Lys Leu
                   295
Phe Ser Arg Ala Thr Phe Phe Ser Trp
305
                    310
<210> 1603
<211> 196
<212> PRT
<213> Unknown (H38g520 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(196)
<223> Xaa = Any Amino Acid
<400> 1603
Arg Leu Leu Pro Met Tyr Phe Phe Leu Gly Asn Leu Ser Leu Leu
 1
                                    10
Asp Leu Cys Leu Pro Ser Ile Pro Val Pro Lys Met Leu Gln Asn Leu
            20
                                25
Leu Thr Gln Arg Xaa Thr Ile Ser Met Trp Tyr Cys Ile Val Gln Ser
                            40
                                                45
Phe Phe Leu Ile Phe Ser Gly Ser Thr Glu Ala Cys Leu Leu Ala
                        55
                                            60
Met Ala Cys Asp His Ser Thr Ser Asn Cys His Pro Arg Leu Asn Asp
                    70
                                        75
Val Val Met Asn Gln Pro Val Cys Val Arg Met Val Ile Ala Ala Trp
                85
                                    90
                                                        95
Ala Val Gly Phe Leu Asn Ser Leu Thr Lys Asn Leu Phe Ile Tyr Asn
            100
                                105
                                                    110
Leu His Phe Cys Gly Pro Ser Val Ile Pro His Phe Cys Cys Glu Leu
                            120
                                                125
Pro Ser Leu Phe Pro Leu Ser Cys Ile Asp Pro Ala Ala Ser Glu Val
                        135
                                            140
Leu Pro Ala Gly Ser Cys Thr Leu Leu Gly Phe Val Thr Cys Arg Cys
                   150
                                        155
Val Leu Phe Ser Tyr Ser Asn Thr Ile Ser Ala Val Leu Ala Ile Trp
               165
                                   170
                                                        175
Phe Ser Glu Gly Gln Gly Lys Ala Phe Ser Thr Cys Ser Ser His Leu
                                185
Thr Val Val Leu
        195
<210> 1604
<211> 306
<212> PRT
<213> Unknown (H38g521 protein)
<220>
<223> Synthetic construct
<400> 1604
Met Ser Pro Glu Asn Gln Ser Ser Val Ser Glu Phe Leu Leu Gly
1
                                    10
Leu Pro Ile Arg Pro Glu Gln Gln Ala Val Phe Phe Ala Leu Phe Leu
           20
                                25
                                                    30
Gly Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Leu Ile Met Leu Leu
        35
                           40
Ile Gln Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser
```

```
His Leu Ala Leu Thr Asp Ile Ser Phe Ser Ser Val Thr Val Pro Lys
                    70
                                        75
Met Leu Met Asn Met Gln Thr Gln His Leu Ala Val Phe Tyr Lys Gly
                85
                                    90
Cys Ile Ser Gln Thr Tyr Phe Phe Ile Phe Phe Ala Asp Leu Asp Ser
                                105
 Phe Leu Ile Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
                            120
                                                125
 Pro Leu His Tyr Ala Thr Ile Met Thr Gln Ser Gln Cys Val Met Leu
                        135
                                            140
Val Ala Gly Ser Trp Val Ile Ala Cys Ala Cys Ala Leu Leu His Thr
                    150
                                        155
Leu Leu Leu Ala Gln Leu Ser Phe Cys Ala Asp His Ile Ile Pro His
                165
                                    170
Tyr Phe Cys Asp Leu Gly Ala Leu Leu Lys Leu Ser Cys Ser Asp Thr
            180
                                185
Ser Leu Asn Gln Leu Ala Ile Phe Thr Ala Ala Leu Thr Ala Ile Met
                            200
Leu Pro Phe Leu Cys Ile Leu Val Ser Tyr Gly His Ile Gly Val Thr
                        215
                                            220
Ile Leu Gln Ile Pro Ser Thr Lys Gly Ile Cys Lys Ala Leu Ser Thr
                    230
                                        235
Cys Gly Ser His Leu Ser Val Val Thr Ile Tyr Tyr Arg Thr Ile Ile
                245
                                    250
Gly Leu Tyr Phe Leu Pro Pro Ser Ser Asn Thr Asn Asp Lys Asn Ile
           260
                                265
Ile Ala Ser Val Ile Tyr Thr Ala Val Thr Pro Met Leu Asn Pro Phe
       275
                           280
                                                285
Ile Tyr Ser Leu Arg Asn Lys Asp Ile Lys Gly Ala Leu Arg Lys Leu
                       295
Leu Ser
305
<210> 1605
<211> 197
<212> PRT
<213> Unknown (H38g522 protein)
<220>
<223> Synthetic construct
<400> 1605
Leu Leu Pro Met Tyr Phe Phe Leu Gly Asn Leu Ser Leu Met Asp
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Ile Cys Gly Thr Ser Ser Phe Val Pro Leu Ile Leu Asp Asn Phe Leu
                                25
Glu Thr Gln Arg Thr Ile Ser Phe Pro Gly Cys Ala Leu Gln Met Tyr
                            40
Leu Thr Leu Ala Leu Gly Ser Thr Glu Cys Leu Leu Ala Val Met
                        55
Ala Tyr Asp Arg Tyr Val Ala Ile Cys Gln Pro Leu Arg Tyr Pro Glu
                    70
Leu Met Ser Gly Gln Thr Cys Met Gln Met Ala Ala Leu Ser Trp Gly
                85
                                    90
Thr Gly Phe Ala Asn Ser Leu Leu Gln Ser Ile Leu Val Trp His Leu
                               105
Pro Phe Cys Gly His Val Ile Asn Tyr Phe Tyr Glu Ile Leu Ala Val
                           120
                                               125
Leu Lys Leu Ala Cys Gly Asp Ile Ser Leu Asn Ala Leu Ala Leu Met
                        135
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Val Ala Thr Ala Val Leu Thr Leu Ala Pro Leu Leu Leu Ile Cys Leu 155 150 Ser Tyr Leu Phe Ile Leu Ser Ala Ile Leu Arg Val Pro Ser Ala Ala 170 165 Gly Arg Cys Lys Ala Phe Ser Thr Cys Ser Ala His Arg Thr Val Val 180 185 Val Val Phe Tyr Gly 195 <210> 1606 <211> 328 <212> PRT <213> Unknown (H38g523 protein) <223> Synthetic construct <221> VARIANT <222> (1)...(328) <223> Xaa = Any Amino Acid <400> 1606 Val Asn Gly Trp Ser Asn Lys Ser Val Val Thr Glu Phe Asn Leu Leu 5 10 Gly Leu Ser Ser Ser Trp Glu Leu Gln Val Phe Phe Phe Ile Phe 25 Ser Val Phe Tyr Gly Ala Ala Val Leu Gly Asn Ile Leu Ile Ile 40 Thr Val Ile Ile Asp Ser His Leu His Ser Pro Met Tyr Phe Leu Leu 55 Ser Asn Leu Ser Ser Ile Asp Val Cys Gln Ala Thr Phe Ala Thr Pro 70 75 Lys Met Ile Ala Asp Phe Leu Asn Glu His Lys Thr Thr Thr Phe Gln 90 Gly Cys Met Ser Gln Ile Phe Phe Leu His Val Phe Gly Gly Ser Glu 100 105 Met Val Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys 120 125 Lys Pro Leu His Tyr Met Thr Ile Met Asn Arg Arg Val Xaa Thr Val 135 140 Leu Val Gly Val Ser Trp Ala Ile Gly Ile Ser His Ser Ala Thr His 150 155 Leu Ala Phe Lys Val Asn Leu Pro Phe Cys Gly Pro Asn Arg Val Asp 165 170 Asn Phe Phe Cys Asp Leu Leu Leu Val Ile Lys Leu Ala Cys Leu Asp 190 180 185 Thr Tyr Gly Phe Glu Ile Leu Val Leu Thr Asn Ser Gly Leu Leu Ser 200 205 Leu Met Cys Phe Leu Leu Leu Ile Ser Asp Thr Ile Ile Leu Ala 215 220 Thr Val His Arg Gln Ala Ser Asp Gly Met Ser Lys Ala Leu Ser Thr 230 235 Leu Ser Ala His Ile Thr Val Val Leu Leu Phe Phe Gly Pro Leu Ile 245 250 Phe Ile Tyr Ile Trp Pro Phe Glu Ser Phe Pro Ile Asp Lys Phe Ile 265 270 Ser Val Phe Phe Thr Val Phe Thr Pro Leu Leu Asn Pro Met Ile Tyr 280 Thr Leu Arg Asn Lys Asp Ile Lys Glu Ala Met Arg Lys Leu Arg Arg 295

Xaa His Val Gly Ser Lys Gln Gly Phe Xaa Thr Thr Thr Lys Lys Xaa

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310
                                         315
                                                             320
 Tyr Lys Phe Leu Leu Gly Phe
 <210> 1607
 <211> 260
 <212> PRT
 <213> Unknown (H38g524 protein)
 <220>
 <223> Synthetic construct
 <221> VARIANT
 <222> (1)...(260)
 <223> Xaa = Any Amino Acid
 <400> 1607
 Met Tyr Phe Phe Leu Ser Phe Leu Ser Leu Thr Asp Ile Cys Phe Thr
 Thr Ser Val Val Pro Lys Met Leu Met Asn Phe Leu Ser Glu Lys Lys
             20
                                 25
 Thr Ile Ser Tyr Ala Gly Cys Leu Thr Gln Met Tyr Phe Leu Tyr Ala
                            40
 Leu Gly Asn Ser Asp Ser Cys Leu Leu Ser Xaa Met Ala Phe Asp Arg
                        55
                                            60
 Tyr Val Ala Val Cys Asp Pro Phe His Tyr Val Thr Thr Met Ser His
                    70
                                        75
His His Cys Val Leu Leu Val Ala Phe Ser Cys Ser Phe Thr Tyr Leu
                85
                                    90
His Ser Leu Leu His Thr Leu Leu Leu Asn Arg Leu Thr Phe Cys Asp
                                105
 Ser Asn Val Ile His His Phe Leu Cys Asp Leu Ser Pro Val Leu Lys
                            120
                                                 125
Leu Ser Cys Ser Ser Ile Phe Val Asn Glu Ile Val Gln Met Thr Glu
                        135
                                             140
Ala Pro Ile Val Leu Val Thr Arg Phe Leu Cys Ile Ala Phe Ser Tyr
                    150
                                        155
Ile Arg Ile Leu Thr Thr Val Leu Lys Ile Pro Ser Thr Ser Gly Lys
                                    170
                                                         175
Arg Lys Ala Phe Ser Thr Cys Gly Phe Tyr Leu Thr Val Val Thr Leu
                                185
Phe Tyr Gly Ser Ile Phe Cys Val Tyr Leu Gln Pro Pro Ser Thr Tyr
                            200
                                                205
Ala Val Lys Asp His Val Ala Thr Ile Val Tyr Thr Val Leu Ser Ser
                        215
                                            220
Met Leu Asn-Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Leu Lys Gln
                   230
                                        235
Gly Leu Arg Lys Leu Met Ser Lys Arg Ser Xaa Glu Ala Pro Ser Xaa
                245
                                    250
Lys Thr Arg Lys
            260
<210> 1608
<211> 192
<212> PRT
<213> Unknown (H38g525 protein)
<223> Synthetic construct
<400> 1608
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                                    10
Asp Met Ser Phe Thr Thr Ser Ile Val Pro Gln Leu Leu Ala Asn Leu
                               25
           20
Trp Gly Pro Gln Lys Thr Ile Ser Tyr Gly Gly Cys Val Val Gln Phe
                           40
Tyr Ile Ser His Trp Leu Gly Ala Thr Glu Cys Val Leu Leu Ala Thr
                       55
Met Ser Tyr Asp Arg Tyr Ala Ala Ile Cys Arg Pro Leu His Tyr Thr
                   70
                                        75
Val Ile Met His Pro Gln Leu Cys Leu Gly Leu Ala Leu Ala Ser Trp
               85
                                   90
Leu Gly Gly Leu Thr Thr Ser Met Val Gly Ser Thr Leu Thr Met Leu
                               105
           100
Leu Pro Leu Cys Gly Asn Asn Cys Ile Asp His Phe Phe Cys Glu Met
                           120
       115
Pro Leu Ile Met Gln Leu Ala Cys Val Asp Thr Ser Leu Asn Glu Met
                       135
                                            140
Glu Met Tyr Leu Ala Ser Phe Val Phe Val Val Leu Pro Leu Gly Leu
                   150
                                        155
Ile Leu Val Ser Tyr Gly His Ile Ala Glu Ala Gly Leu Lys Asn Lys
                                   170
               165
Ser Ala Glu Gly Arg Arg Lys Ala Phe Asn Thr Cys Ser Phe His Val
           180
<210> 1609
<211> 310
<212> PRT
<213> Unknown (H38g526 protein)
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<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(310)

<223> Xaa = Any Amino Acid

<400> 1609

Met Asp Ile Arg Asn Ser Ser Ile Ile Thr Glu Phe Val Leu Leu Glu 10 Phe Ile Ser Thr Trp Glu Leu Glu Ile Leu Phe Leu Ile Ile Phe Leu 25 Leu Ala Tyr Ala Ala Ile Met Ala Gly Asn Leu Thr Ala Ile Ala Val 45 35 40 Thr Ser Asn Pro Pro Leu Cys Ser Thr Pro Met Tyr Phe Leu Leu Gly 55 60 Asn Leu Ser Phe Leu Ser Met Phe Ile Ser Thr Val Thr Ile Ser Lys 70 75 Met Val Leu Asp Val Leu Arg Glu Asn Lys Thr Thr Ser Ser Trp Gly 85 90 Cys Met Ala Gln Met Leu His Phe Leu Gly Gly Ser Glu Met Thr Leu 110 100 105 Leu Ile Phe Met Ala Val Asp Gln His Ile Ala Ile Cys Arg Pro Leu 120 His Cys Arg Thr Ile Thr Asn Cys Arg Val Leu Met Ala Thr His Gly 135 140 Leu Cys Val Leu Ser Arg Ala Val Gly Phe Val His Thr Ile Ser Gln 150 155 Ile Val Phe Ile Ile Thr Leu Pro Phe Cys Gly Pro Ser Val Val Asp 170 165 Asn Leu Phe Xaa Asp Leu Pro Leu Val Leu Lys Leu Ala Cys Thr Glu

```
180
                               185
                                                   190
Thr Tyr Asp Leu Glu Leu Leu Val Ile Ala Lys Ser Gly Gln Leu Ser
                200
        195
                                               205
Phe Ile Cys Phe Ile Val Leu Leu Ile Phe Tyr Thr Ile Ile Leu Val
                       215
                                           220
Thr Val Gln His Arg Ser Ser Asp Ala Leu Ser Lys Ala Leu Ser Thr
                   230
                                       235
Leu Ser Ala His Ile Thr Ala Val Thr Leu Phe Phe Glu Pro Cys Val
               245
                                   250
Tyr Ile Tyr Thr Trp Pro Phe Arg Ser Phe Ser Val Asp Thr Phe Leu
                               265
Ser Val Phe Tyr Ser Val Thr Pro Leu Leu Asn Pro Ile Thr Tyr Ser
                          280
Leu Arg Xaa Lys His Ala Ile His Gln Leu Arg Thr Gln His Ile Ile
                      295
Ser Arg Gln Thr Phe Ser
<210> 1610
<211> 198
<212> PRT
<213> Unknown (H38g527 protein)
<220>
<223> Synthetic construct
<400> 1610
Leu Leu Pro Met Tyr Phe Phe Leu Cys Asn Leu Ser Leu Val Asp
                                   10
Phe Gly Tyr Ser Ser Ala Val Thr Pro Lys Val Met Val Gly Phe Leu
           20
                               25
Thr Gly Asp Lys Phe Ile Leu Tyr Asn Ala Cys Ala Thr Gln Phe Phe
                          40
                                              45
Phe Phe Val Ala Phe Ile Thr Ala Glu Ser Phe Leu Leu Ala Ser Met
                       55
                                           60
Ala Tyr Asp Arg Tyr Ala Ala Leu Cys Lys Pro Leu His Tyr Thr Thr
                   70
                                       75
Thr Met Thr Thr Asn Val Cys Ala Arg Leu Ala Ile Gly Ser Tyr Ile
               85
                                   90
                                                       95
Cys Gly Phe Leu Asn Ala Ser Ile His Thr Gly Asn Thr Phe Arg Leu
           100
                               105
Ser Phe Cys Arg Ser Asn Val Val Glu His Phe Phe Cys Asp Ala Pro
                           120
                                               125
Pro Leu Leu Thr Leu Ser Cys Ser Asp Asn Tyr Ile Ser Glu Met Val
                       135
Ile Phe Phe Val Val Gly Phe Asn Asp Leu Phe Ser Ile Leu Val Ile
                  150
                                      155
Leu Ile Ser Tyr Leu Phe Ile Phe Ile Thr Ile Met Lys Met Arg Ser
              165
                                  170
                                                      175
Pro Glu Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr
           180
                              185
Ala Val Ser Ile Phe Tyr
       195
<210> 1611
<211> 315
<212> PRT
<213> Unknown (H38g528 protein)
<220>
<223> Synthetic construct
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<400> 1611
Met Glu Ala Met Lys Leu Leu Asn Gln Ser Gln Val Ser Glu Phe Ile
Leu Leu Gly Leu Thr Ser Ser Gln Asp Val Glu Phe Leu Leu Phe Ala
                               25
Leu Phe Ser Val Ile Tyr Val Val Thr Val Leu Gly Asn Leu Leu Ile
                           40
                                               45
Ile Val Thr Val Phe Asn Thr Pro Asn Leu Asn Thr Pro Met Tyr Phe
                       55
Leu Leu Gly Asn Leu Ser Phe Val Asp Met Thr Leu Ala Ser Phe Ala
                                        75
                   70
Thr Pro Lys Val Ile Leu Asn Leu Leu Lys Lys Gln Lys Val Ile Ser
                                   90
Phe Ala Gly Cys Phe Thr Gln Ile Phe Leu Leu His Leu Leu Gly Gly
                               105
           100
Val Glu Met Val Leu Leu Val Ser Met Ala Phe Asp Arg Tyr Val Ala
                           120
Ile Cys Lys Pro Leu His Tyr Met Thr Ile Met Asn Lys Lys Val Cys
                       135
                                           140
Val Leu Leu Val Val Thr Ser Trp Leu Leu Gly Leu Leu His Ser Gly
                                       155
                   150
Phe Gln Ile Pro Phe Ala Val Asn Leu Pro Phe Cys Gly Pro Asn Val
               165
                                    170
Val Asp Ser Ile Phe Cys Asp Leu Pro Leu Val Thr Lys Leu Ala Cys
                               185
           180
Ile Asp Ile Tyr Phe Val Gln Val Val Ile Val Ala Asn Ser Gly Ile
                           200
       195
Ile Ser Leu Ser Cys Phe Ile Ile Leu Leu Ile Ser Tyr Ser Leu Ile
                                           220
                       215
Leu Ile Thr Ile Lys Asn His Ser Pro Thr Gly Gln Ser Lys Ala Arg
                                       235
                   230
Ser Thr Leu Thr Ala His Ile Thr Val Val Ile Leu Phe Phe Gly Pro
                                                       255
                                    250
               245
Cys Ile Phe Ile Tyr Ile Trp Pro Phe Gly Asn His Ser Val Asp Lys
                                                  270
           260
                               265
Phe Leu Ala Val Phe Tyr Thr Ile Ile Thr Pro Ile Leu Asn Pro Ile
                                               285
       275
                         280
Ile Tyr Thr Leu Arg Asn Lys Glu Met Lys Ile Ser Met Lys Lys Leu
                    295
Trp Arg Ala Phe Val Asn Ser Arg Glu Asp Thr
                   310
<210> 1612
<211> 317
<212> PRT
<213> Unknown (H38g529 protein)
<220>
<223> Synthetic construct
<400> 1612
Met Glu Pro Gln Asn Thr Ser Thr Val Thr Asn Phe Gln Leu Leu Gly
                                    10
Phe Gln Asn Leu Leu Glu Trp Gln Ala Leu Leu Phe Val Ile Phe Leu
          20
                               25
Leu Ile Tyr Cys Leu Thr Ile Ile Gly Asn Val Val Ile Ile Thr Val
                           40
       35
Val Ser Gln Gly Leu Arg Leu His Ser Pro Met Tyr Met Phe Leu Gln
```

60

55

His Leu Ser Phe Leu Glu Val Trp Tyr Thr Ser Thr Thr Val Pro Leu

```
75
                    70
Leu Leu Ala Asn Leu Leu Ser Trp Gly Gln Ala Ile Ser Phe Ser Ala
                                   90
Cys Met Ala Gln Leu Tyr Phe Phe Val Phe Leu Gly Ala Thr Glu Cys
                               105
Phe Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Leu Ala Ile Cys Ser
                          120
Pro Leu Arg Tyr Pro Phe Leu Met His Arg Gly Leu Cys Ala Arg Leu
                                           140
                       135
Val Val Val Ser Trp Cys Thr Gly Val Ser Thr Gly Phe Leu His Ser
                                       155
                   150
Met Met Ile Ser Arg Leu Asp Phe Cys Gly Arg Asn Gln Ile Asn His
                                  170
               165
Phe Phe Cys Asp Leu Pro Pro Leu Met Gln Leu Ser Cys Ser Arg Val
                               185
           180
Tyr Ile Thr Glu Val Thr Ile Phe Ile Leu Ser Ile Ala Val Leu Cys
                           200
Ile Cys Phe Phe Leu Thr Leu Gly Pro Tyr Val Phe Ile Val Ser Ser
                        215
Ile Leu Arg Ile Pro Ser Thr Ser Gly Arg Arg Lys Thr Phe Ser Thr
                                        235
                    230
Cys Gly Ser His Leu Ala Val Val Thr Leu Tyr Tyr Gly Thr Met Ile
                245
                                    250
Ser Met Tyr Val Cys Pro Ser Pro His Leu Leu Pro Glu Ile Asn Lys
                                265
Ile Ile Ser Val Phe Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Val
                            280
Ile Tyr Ser Leu Arg Asn Lys Asp Phe Lys Glu Ala Val Arg Lys Val
                       295
Met Arg Arg Lys Cys Gly Ile Leu Trp Ser Thr Ser Lys
                    310
<210> 1613
<211> 335
<212> PRT
<213> Unknown (H38g530 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(335)
<223> Xaa = Any Amino Acid
<400> 1613
Ser Thr Asp Pro Gln Asn Leu Thr Asp Val Ser Ile Phe Leu Leu Leu
                                    10
Gly Ser Ser Glu Asp Pro Glu Trp Gln Pro Val Leu Thr Gly Leu Cys
                                25
Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
                            40
Ala Val Ser Pro Asp Ser His Leu His Ile Pro Met Tyr Phe Phe Leu
                       55
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
                    70
Lys Met Ile Val Asp Ile Gln Ser His Ser Arg Val Ile Ser Tyr Ala
                                   90
Gly Cys Leu Thr Gln Met Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
                               105
Glu Asn Met Leu Leu Ser Val Ile Ala Tyr Glu Arg Phe Val Ala Ile
                           120
```

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Cys His Pro Leu Tyr His Ser Ala Ile Met Asn Pro Cys Phe Cys Gly
                                           140
                       135
Phe Leu Val Leu Leu Ser Phe Phe Phe Leu Ser Leu Leu Asp Ala Gln
                   150
                                       155
Leu His Asn Leu Ile Ala Leu Gln Arg Thr Cys Phe Lys Asp Val Glu
                                   170
               165
Ile Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala Tyr
                               185
Cys Gly Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile
                           200
                                               205
       195
Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Asp Lys Ile
                      215
                                           220
Val Phe Ser Ile Leu Arg Val Ser Ser Ser Gly Gly Lys Tyr Lys Ala
                                       235
                   230
Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
               245
                                   250
Thr Gly Ile Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg
                              265
           260
Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Val Ile Pro Met Pro
                          280
      275
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Ser Val Leu
                      295
                                          300
Gln Arg Pro His Gly Ser Thr Ile Ser Ser Gln Tyr Leu Leu Ile Cys
                              315
                   310
Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Ser Lys Val Lys
```

<210> 1614

<211> 330

<212> PRT

<213> Unknown (H38g531 protein)

<220>

<223> Synthetic construct

<221> VARIANT

<222> (1)...(330)

<223> Xaa = Any Amino Acid

<400> 1614

His Thr Glu Pro Gln Asn Leu Thr Gly Ile Xaa Glu Phe Leu Leu 10 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Ser 20 25 Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ser Thr Leu 45 40 Ala Val Ser Ser Asp Ser Pro Leu His Thr Pro Met Tyr Phe Phe Leu 55 60 Ser Asn Leu Cys Trp Ala Asp Ile Gly Phe Thr Leu Ala Ile Val Pro Lys Met Thr Val Asp Met Gln Ser His Ser Arg Val Ile Ser His Ala 90 Gly Cys Leu Thr Gln Met Ser Phe Leu Val Leu Phe Ala Cys Ile Glu 110 100 105 Asp Met Phe Leu Thr Val Met Ala Tyr Asp Arg Phe Val Ala Ile Cys 120 Arg Pro Leu Tyr Tyr Pro Val Ile Ile Asn Pro His Leu Cys Val Phe 135 140 Phe Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His 150 155 Ser Trp Ile Val Xaa Gln Phe Thr Phe Ser Lys Asn Val Glu Ile Ser

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170
               165
Asn Phe Val Cys Glu Pro Ser Gln Leu Leu Tyr Leu Ala Cys Ser Asp
                               185
                                                   190
           180
Ser Ile Ile Asn Ser Ile Phe Ile Tyr Phe Asp Ser Thr Met Phe Gly
                                               205
                           200
Phe Leu Pro Ile Ser Arg Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro
                      215
                                           220
Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Thr
                                       235
                   230
Thr Cys Gly Ser His Leu Ala Val Val Cys Leu Phe Asp Gly Thr Gly
               245
                                  250
Ile Gly Met Tyr Leu Thr Ser Ala Val Ala Pro Pro Pro Arg Asn Gly
                                                   270
                               265
Val Val Ala Ser Val Met Tyr Ala Val Val Thr Pro Met Leu Asn Pro
                           280
                                               285
Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Asn Thr Leu Trp Arg
                       295
                                           300
Leu Arg Ser Arg Arg Val Glu Ser His Asp Leu Phe His Pro Phe Phe
                   310
                                       315
Val Trp Val Arg Lys Gly Asn His Ile Lys
                325
<210> 1615
<211> 335
<212> PRT
<213> Unknown (H38g532 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(335)
<223> Xaa = Any Amino Acid
<400> 1615
Ser Thr Asp Pro Gln Asn Leu Ile Asp Val Phe Val Phe Leu Leu Leu
                5
                                   10
Gly Thr Ser Glu Asp Pro Glu Arg Gln Leu Val Leu Ala Gly Leu Phe
                               25
            20
Leu Ser Met Cys Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Leu
                            40
Ala Val Ser Pro Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
                        55
                                            60
Ser Asn Leu Ser Leu Pro Asp Ile Gly Phe Thr Ser Thr Thr Val Pro
                                        75
Lys Leu Ile Val Asp Ile Gln Ser Tyr Ser Arg Val Ile Ser Tyr Ala
                                   90
Gly Cys Leu Thr Gln Thr Ser Leu Phe Ala Ile Phe Gly Gly Met Glu
                               105
Glu Asn Met Leu Leu Ser Val Met Val Tyr Asp Arg Phe Val Ala Ile
                           120
Cys His Pro Leu Tyr His Ser Ala Val Met Asn Pro Cys Phe Cys Gly
                       135
                                           140
Phe Leu Val Leu Leu Ser Phe Phe Phe Leu Ser Leu Leu Asp Ala Gln
                                        155
                   150
Leu His Asn Leu Ile Ala Leu Gln Met Thr Cys Phe Lys Asp Val Glu
                                   170
               165
Ile Pro Asn Phe Phe Trp Asp Pro Ser Gln Leu Pro His Leu Ala Cys
                                                   190
                               185
Cys Asp Thr Phe Thr Asn Asn Ile Ile Met Tyr Phe Pro Ala Ala Ile
                            200
```

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Phe Gly Phe Leu Pro Ile Ser Gly Thr Leu Phe Ser Tyr Tyr Glu Ile
                                           220
                       215
Val Ser Ser Ile Leu Arg Val Ser Ser Xaa Gly Gly Lys Tyr Lys Ala
                   230
                                       235
Phe Ala Thr Cys Gly Ser His Leu Ser Val Val Cys Xaa Phe Tyr Gly
                                   250
               245
Thr Gly Val Gly Gly Tyr Leu Ser Ser Asp Val Ser Ser Ser Pro Arg
                              265
                                                  270
Lys Ala Ala Val Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Leu
                          280
                                               285
       275
Asn Pro Phe Ile Tyr Ser Leu Arg Asn Arg Asp Thr Lys Ser Val Leu
                       295
                                           300
Arg Arg Pro His Gly Ser Thr Val Xaa Ser Xaa Tyr Leu Leu Ile Cys
                                       315
                   310
Ser Ile Pro Phe Val Val Trp Val Lys Lys Gly Arg Lys Val Lys
               325
                                   330
<210> 1616
<211> 320
<212> PRT
<213> Unknown (H38g533 protein)
<223> Synthetic construct
<221> VARIANT
<222> (1)...(320)
<223> Xaa = Any Amino Acid
<400> 1616
His Thr Glu Pro Arg His Leu Thr Gly Val Xaa Glu Phe Leu Leu
                                   10
1 5
Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Gly Leu Ser
                               25
                                                   30
Leu Ser Met Tyr Leu Val Thr Val Leu Arg Asn Leu Leu Ile Ile Leu
                           40
                                               45
Ala Val Ser Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu
                       55
Ser Asn Leu Cys Trp Ala Asp Ile Ser Phe Thr Ser Ala Thr Val Pro
                   70
                                       75
Lys Met Thr Val Asp Met Gln Ser His Ser Arg Val Ile Ser Tyr Ala
                                  90
               85
Gly Cys Leu Thr Arg Met Ser Phe Phe Val Leu Phe Ala Cys Ile Glu
                              105
           100
Asp Met Leu Leu Thr Val Met Ala Xaa Asp Cys Phe Val Ala Ile Cys
                          120
                                               125
Arg Pro Leu His Tyr Ala Val Ile Val Asn Pro His Leu Cys Val Phe
                                           140
                       135
Leu Val Leu Val Ser Phe Phe Leu Ser Leu Leu Asp Ser Gln Leu His
                   150
                                       155
Ser Xaa Ile Val Leu Gln Phe Thr Phe Phe Lys Asn Val Glu Ile Ser
                                   170
               165
His Phe Val Cys Glu Pro Ser Gln Leu Leu Asn Leu Ala Cys Ser Asp
                                                   190
                               185
Ser Phe Ile Asn Ser Ile Phe Met Tyr Phe Asp Ser Thr Met Phe Gly
                                               205
                           200
       195
Phe Leu Pro Ile Ser Gly Ile Leu Leu Ser Tyr Tyr Lys Ile Val Pro
                                           220
                       215
Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala Phe Ser
```

Thr Cys Gly Ser His Leu Ala Val Val Cys Leu Phe Tyr Gly Thr Gly

235

230

```
250
                245
Ile Gly Val Tyr Leu Thr Ser Ala Val Ala Pro Pro Pro Ser Asn Gly
                               265
           260
Val Val Ala Ser Val Lys Tyr Thr Val Val Thr Pro Met Leu Asn Pro
                           280
        275
Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Thr Leu Trp Arg
                       295
Leu Cys Ser Arg Thr Val Lys Ser Leu Asp Leu Phe His Ser Phe Ser
                   310
<210> 1617
<211> 327
<212> PRT
<213> Unknown (H38g534 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(327)
<223> Xaa = Any Amino Acid
<400> 1617
Ile Ser Leu Leu Phe Trp Val Leu Leu Val Ile Ser Arg Val Leu
1
Val Ala Met Ala Xaa Gly Asn Ser Thr Glu Val Thr Glu Phe Cys Leu
           20
Leu Gly Phe Gly Ala Xaa Gln Glu Phe Trp Cys Ile Leu Phe Ile Ile
                            40
Phe Leu Leu Ile Tyr Val Thr Ser Ile Met Gly Asn Ser Gly Ile Ile
                        55
Leu Leu Ile Asn Thr Asp Ser Arg Phe Gln Thr Pro Met Tyr Phe Phe
                    70
                                        75
Leu Gln His Leu Ala Phe Val Asp Ile Cys Tyr Thr Ser Ala Ile Thr
                                    90
                85
Pro Lys Met Leu Gln Ser Phe Thr Glu Glu Lys Asn Leu Ile Ser Phe
                                105
Trp Gly Cys Met Ile Gln Leu Leu Val Tyr Ala Thr Phe Ala Thr Ser
                                                125
                            120
Asp Cys Tyr Leu Leu Ala Met Ile Ala Val Asp His Tyr Val Ala Ile
                       135
                                            140
Cys Lys Pro Leu His Tyr Thr Val Ile Thr Ser Gln Thr Val Cys Ile
                                        155
                   150
His Leu Val Ala Gly Ser Tyr Ile Met Gly Ser Ile Asn Ala Ser Val
               165
                                    170
His Thr Gly Phe Ala Phe Ser Leu Ser Phe Cys Lys Ser Asn Asn Ile
                                185
            180
Asn His Phe Phe Cys Asp Gly Pro Pro Ile Leu Ala Leu Ser Cys Ser
                            200
        195
Asn Ile Asp Ile Asn Ile Met Leu Leu Val Val Phe Val Gly Phe Asn
                        215
                                            220
Leu Met Phe Thr Gly Leu Val Val Ile Phe Ser Tyr Ile Tyr Ile Met
                                        235
                    230
Ala Thr Ile Leu Lys Met Ser Ser Ser Ala Gly Arg Lys Lys Ser Phe
                                    250
                245
Ser Thr Cys Ala Ser His Leu Thr Thr Val Ala Ile Phe Tyr Gly Thr
                               265
            260
Leu Ser Tyr Met His Leu Gln Ser His Ser Asn Asn Ser Gln Glu Asn
                           280
       275
Met Lys Val Ala Ser Ile Phe Tyr Gly Thr Val Ile Pro Met Leu Asn
                                            300
                        295
```

1. 7. 1

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Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Leu Lys
               310
Leu Ile Gly Lys Lys Phe Phe
              325
<210> 1618
<211> 309
<212> PRT
<213> Unknown (H38g535 protein)
<223> Synthetic construct
<400> 1618
Met Thr Leu Gly Asn Ser Thr Glu Val Thr Glu Phe Tyr Leu Leu Gly
        5
                         10
Phe Gly Ala Gln His Glu Phe Trp Cys Ile Leu Phe Ile Val Phe Leu
                             25
       20
Leu Ile Tyr Val Thr Ser Ile Met Gly Asn Ser Gly Ile Ile Leu Leu
 35
                          40
Ile Asn Thr Asp Ser Arg Phe Gln Thr Leu Thr Tyr Phe Phe Leu Gln
                      55
                                         60
His Leu Ala Phe Val Asp Ile Cys Tyr Thr Ser Ala Ile Thr Pro Lys
                                     75
65 . 70
Met Leu Gln Ser Phe Thr Glu Glu Lys Asn Leu Met Leu Phe Gln Gly
                                  90
              85
Cys Val Ile Gln Phe Leu Val Tyr Ala Thr Phe Ala Thr Ser Asp Cys
                              105
Tyr Leu Leu Ala Met Met Ala Val Asp Pro Tyr Val Ala Ile Cys Lys
                          120
                                             125
      115
Pro Leu His Tyr Thr Val Ile Met Ser Arg Thr Val Cys Ile Arg Leu
                                         140
                      135
Val Ala Gly Ser Tyr Ile Met Gly Ser Ile Asn Ala Ser Val Gln Thr
                  150
                                     155
Gly Phe Thr Cys Ser Leu Ser Phe Cys Lys Ser Asn Ser Ile Asn His
                                 170
              165
Phe Phe Cys Asp Val Pro Pro Ile Leu Ala Leu Ser Cys Ser Asn Val
                             185
          180
Asp Ile Asn Ile Met Leu Leu Val Val Phe Val Gly Ser Asn Leu Ile
                                             205
                         200
Phe Thr Gly Leu Val Val Ile Phe Ser Tyr Ile Tyr Ile Met Ala Thr
                                         220
                     215
Ile Leu Lys Met Ser Ser Ser Ala Gly Arg Lys Lys Ser Phe Ser Thr
                                     235
                  230
Cys Ala Ser His Leu Thr Ala Val Thr Ile Phe Tyr Gly Thr Leu Ser
               245
                                  250
Tyr Met Tyr Leu Gln Ser His Ser Asn Asn Ser Gln Glu Asn Met Lys
                                                270
                              265
           260
Val Ala Phe Ile Phe Tyr Gly Thr Val Ile Pro Met Leu Asn Pro Leu
                         280
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Glu Ala Leu Lys Val Ile
                      295
                                         300
Gly Lys Lys Leu Phe
305
<210> 1619
<211> 298
<212> PRT
<213> Unknown (H38g536 protein)
<220>
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<223> Synthetic construct

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Met Gly Arg Gly Asn Ser Thr Glu Val Thr Glu Phe His Leu Leu Gly
                                   10
Phe Gly Val Gln His Glu Phe Gln His Val Leu Phe Ile Val Leu Leu
                               25
Leu Ile Tyr Val Thr Ser Leu Ile Gly Asn Ile Gly Met Ile Leu Leu
                           40
Ile Lys Thr Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Pro Gln
                                           60
                       55
His Leu Ala Phe Val Asp Ile Cys Tyr Thr Ser Ala Ile Thr Pro Lys
                                       75
                   70
Met Leu Gln Ser Phe Thr Glu Glu Asn Asn Leu Ile Thr Phe Arg Gly
                                   90
Cys Val Ile Gln Phe Leu Val Tyr Ala Thr Phe Ala Thr Ser Asp Cys
                               105
Tyr Leu Leu Ala Ile Met Ala Met Asp Cys Tyr Val Ala Ile Cys Lys
                           120
Pro Leu Arg Tyr Pro Met Ile Met Ser Gln Thr Val Tyr Ile Gln Leu
                                           140
                       135
Val Ala Gly Ser Tyr Ile Ile Gly Ser Ile Asn Ala Ser Val His Thr
                   150
                                       155
Gly Phe Thr Phe Ser Leu Ser Phe Cys Lys Ser Asn Lys Ile Asn His
                                   170
               165
Phe Phe Cys Asp Gly Leu Pro Ile Leu Ala Leu Ser Cys Ser Asn Ile
                               185
           180
Asp Ile Asn Ile Ile Leu Asp Val Val Phe Val Gly Phe Asp Leu Met
                           200
Phe Thr Glu Leu Val Ile Ile Phe Ser Tyr Ile Tyr Ile Met Val Thr
                                           220
                       215
Ile Leu Lys Met Ser Ser Thr Ala Gly Arg Lys Lys Ser Phe Ser Thr
                   230
                                       235
Cys Ala Ser His Leu Thr Ala Val Thr Ile Phe Tyr Gly Thr Leu Ser
                                  250 1 255
               245
Tyr Met Tyr Leu Gln Pro Gln Ser Asn Asn Ser Gln Glu Asn Met Lys
                               265
           260
Val Ala Ser Ile Phe Tyr Gly Thr Val Ile Pro Met Leu Asn Pro Leu
       275
                           280
Ile Tyr Ser Leu Arg Asn Lys Glu Gly Lys
```

- <210> 1620
- <211> 148
- <212> PRT
- <213> Unknown (H38g537 protein)
- <220>
- <223> Synthetic construct
- <221> VARIANT
- <222> (1)...(148)
- <223> Xaa = Any Amino Acid
- <400> 1620
- Thr Tyr Asp Gly Ala Arg Ala Gly Leu Cys Ile Val Ser Tyr Asn Thr 1 5 10 15

  Cys Lys Ser Thr Met Met Ser Ile Lys Ile Gln Leu Lys Tyr Met Xaa 20 25 30
- Xaa Lys Xaa Leu Leu Ile Tyr Ala Gly Val Tyr Leu Asn Val Thr Met 35 40 45

```
Leu Ile Val Thr Phe Lys Tyr Thr His Ile Phe His His Pro Glu Leu
                       55
Ala Leu Cys Tyr Val Ser Phe Ser Ala Val Val Phe His Leu Thr Ala
                   70
                                      75
Val Thr Ile Phe Phe Gly Ala Leu Ser Tyr Met Asp Leu Gln Pro Glu
                                   90
Ser Thr Val Phe Gln Glu Gln Glu Lys Pro Ala Ser Ile Phe Cys Gly
                               105
Ile Met Thr Leu Val Leu Asn Phe Leu Ile Tyr Cys Leu Xaa Asn Xaa
                         120
                                              125
Glu Val Lys Glu Ala Leu Gln Leu Thr Arg Lys Lys Tyr Xaa Tyr Met
           135
Xaa Thr Glu Gly
145
<210> 1621
<211> 296
<212> PRT
<213> Unknown (H38g538 protein)
<223> Synthetic construct
<400> 1621
Met Leu Val Ser Gln Gln Glu Gln Pro Leu Leu Phe Gly Ile Phe Leu
                                  10
        5
Gly Met Tyr Leu Val Thr Met Val Gly Asn Leu Leu Ile Ile Leu Ala
                               25
Ile Ser Ser Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Ala
                           40
Asn Leu Ser Leu Thr Asp Ala Cys Phe Thr Ser Ala Ser Ile Pro Lys
                      55
Met Leu Ala Asn Ile His Thr Gln Ser Gln Ile Ile Ser Tyr Ser Gly
                   70
                                      75
Cys Leu Ala Gln Leu Tyr Phe Leu Leu Met Phe Gly Gly Leu Asp Asn
                                  90
               85
Cys Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Gln
                                                   110
                              105
          100
Pro Leu His Tyr Ser Thr Ser Met Ser Pro Gln Leu Cys Ala Leu Met
                                              125
                           120
      115
Leu Gly Val Cys Trp Val Leu Thr Asn Cys Pro Ala Leu Met His Thr
                                          140
                       135
Leu Leu Leu Thr Arg Val Ala Phe Cys Ala Gln Lys Ala Ile Pro His
                  150
                                      155
Phe Tyr Cys Asp Pro Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr
                                                     175
              165
                                  170
His Val Asn Glu Leu Met Ile Ile Thr Met Gly Leu Leu Phe Leu Thr
                              185
                                                   190
          180
Val Pro Leu Leu Ile Val Phe Ser Tyr Val Arg Ile Phe Trp Ala
                           200
                                               205
       195
Val Phe Val Ile Ser Ser Pro Gly Gly Arg Trp Lys Ala Phe Ser Thr
                                           220
                       215
Cys Gly Ser His Leu Thr Val Val Leu Leu Phe Tyr Gly Ser Leu Met
                   230
                                       235
Gly Val Tyr Leu Leu Pro Pro Ser Thr Tyr Ser Thr Glu Arg Glu Ser
                                   250
               245
Arg Ala Ala Val Leu Tyr Met Val Ile Ile Pro Thr Leu Asn Pro Phe
                              265
           260
Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu Gly Lys Leu
                           280
Phe Val Ser Gly Lys Thr Phe Phe
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<400> 1623

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Ala Pro Pro Glu Gln Gln Ser Leu Phe Gly Ile Phe Leu Cys Met
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Tyr Leu Val Thr Leu Thr Gly Asn Leu Leu Ile Ile Leu Ala Ile Gly
Ser Asp Leu His Leu His Thr Pro Met Tyr Phe Phe Leu Ala Asn Leu
Ser Phe Val Asp Met Gly Leu Thr Ser Ser Thr Val Thr Lys Met Leu
                    70
                                         75
Val Asn Ile Gln Thr Arg His His Thr Ile Ser Tyr Thr Gly Cys Leu
                85
                                    90
Thr Gln Met Tyr Phe Phe Leu Met Phe Gly Asp Leu Asp Ser Phe Phe
            100
                                105
                                                    110
Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu
                            120
                                                 125
Cys Tyr Ser Thr Val Met Arg Pro Gln Val Cys Ala Leu Met Leu Ala
                        135
                                            140
Leu Cys Trp Val Leu Thr Asn Ile Val Ala Leu Thr His Thr Phe Leu
                    150
                                        155
Met Ala Arg Leu Ser Phe Cys Val Thr Gly Glu Ile Ala His Phe Phe
               165
                                    170
Cys Asp Ile Thr Pro Val Leu Lys Leu Ser Cys Ser Asp Thr His Ile
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                                185
Asn Glu Met Met Val Phe Val Leu Gly Gly Thr Val Leu Ile Val Pro
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Phe Leu Cys Ile Val Thr Ser Tyr Ile His Ile Val Pro Ala Ile Leu
                        215
Arg Val Arg Thr Arg Gly Gly Val Gly Lys Ala Phe Ser Thr Cys Ser
                    230
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Ser His Leu Cys Val Val Cys Val Phe Tyr Gly Thr Leu Phe Ser Ala
                                    250
Tyr Leu Cys Pro Pro Ser Ile Ala Ser Glu Glu Lys Asp Ile Ala Ala
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Ala Ala Met Tyr Thr Ile Val Thr Pro Met Leu Asn Pro Phe Ile Tyr
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Ser Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Lys Arg Leu Phe Ser
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His Arg Ser Ile Val Ser Ser
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Gln Val Gly Pro Ala Leu Ala Ile Leu Leu Cys Gly Leu Phe Ser Val
                                25
Phe Tyr Thr Leu Thr Leu Leu Gly Asn Gly Val Ile Phe Gly Ile Ile
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Cys Leu Asp Ser Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser His

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Leu Ala Ile Ile Asp Met Ser Tyr Ala Ser Asn Asn Val Pro Lys Met
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Leu Ala Asn Leu Met Asn Gln Lys Ser Thr Ile Ser Phe Val Pro Cys
                                    90
Ile Met Gln Thr Phe Leu Tyr Leu Ala Phe Ala Val Thr Glu Cys Leu
            100
                                105
Ile Leu Val Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His Pro
                            120
Phe Gln Tyr Thr Val Ile Met Ser Trp Arg Val Cys Thr Ile Leu Ala
                        135
                                            140
Ser Thr Cys Trp Ile Ile Ser Phe Leu Met Ala Leu Val His Ile Thr
                    150
                                        155
His Ile Leu Arg Pro Pro Phe Cys Gly Pro Gln Lys Ile Asn His Phe
                                    170
Ile Cys Gln Ile Met Ser Val Phe Lys Leu Ala Cys Ala Gly Pro Arg
                                185
Leu Asn Gln Val Val Leu Tyr Ala Gly Ser Ala Phe Ile Val Glu Gly
                            200
                                                205
Pro Leu Cys Leu Glu Leu Val Ser Asn Leu His Ile Leu Ser Ala Ile
                        215
                                            220
Leu Arg Ile Gln Asn Gly Glu Gly Arg Arg Pro Thr Tyr Ser Ser Cys
                    230
                                        235
Ser Ser His Leu Cys Met Val Gly Leu Leu Phe Gly Ser Thr Met Val
                245
                                    250
Met Tyr Met Ala Pro Lys Ser Arg His Pro Glu Glu Gln Gln Lys Val
            260
                                265
Leu Ser Leu Phe Tyr Ser Leu Phe Asn Pro Met Leu Asn Pro Leu Ile
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Tyr Ser Leu Arg Asn Ala Glu Val Lys Gly Ala Leu Lys Arg Val Leu
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Trp Lys Gln Arg Ser Lys Xaa Gly Met Pro
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                                25
Gln Leu Xaa Gly Cys Leu Thr Val Leu Leu Glu Thr Ser Phe Ala Leu
                            40
                                                45
Gln Arg Pro Leu Cys Gly Asn Leu Ile Asp Asp Thr Cys Glu Ile Leu
                        55
                                            60
Glu Val Leu Lys Leu Val Cys Ser Ser Ser Leu Leu Met Asp Met Ile
                    70
                                        75
Met Met Val Val Asn Ile Leu Leu Pro Ile Pro Met Tyr Leu Phe
                                    90
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110

Ile Thr Met Cys Ser Val Ile Leu Phe Leu Lys Arg Ser Tyr Gly Asn

105

100

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Leu Pro Arg Glu Phe Ser Phe Cys Ile Ser Trp Ser Ile Trp Val Phe
                                               125
                           120
Val Tyr Cys Leu Ala Ile Ile Phe Arg Ala Leu Tyr Lys Leu Thr Lys
                       135
                                           140
   130
Ile Trp Gly Ser Thr Met Asn Glu Ile Val Arg Trp Met Tyr Xaa Tyr
                                       155
                   150
Xaa Thr Tyr Xaa Tyr Xaa Ile Val Xaa His Lys Leu Ala Leu Lys Tyr
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                                                       175
Asn His Lys Leu Val Ser Thr Met Leu Gln Ala Leu Leu Ser Phe Leu
                               185
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Phe Thr Asp His Pro Glu Leu Lys Thr Leu Leu Phe Val Val Phe Phe
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                               25
Ala Ile Tyr Leu Ile Thr Val Val Gly Asn Ile Ser Leu Val Ala Leu
                                               45
       35
                           40
Ile Phe Thr His Arg Arg Leu His Thr Pro Met Tyr Ile Phe Leu Gly
                       55
Asn Leu Ala Leu Val Asp Ser Cys Cys Ala Cys Ala Ile Thr Pro Lys
                                       75
                   70
65
Met Leu Glu Asn Phe Phe Ser Glu Asn Lys Arg Ile Ser Leu Tyr Glu
                                   90
Cys Ala Val Gln Phe Tyr Phe Leu Cys Thr Val Glu Thr Ala Asp Cys
                              105
                                                   110
           100
Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
                           120
                                               125
Pro Leu Gln Tyr His Ile Met Met Ser Lys Lys Leu Cys Ile Gln Met
                       135
                                           140
Thr Thr Gly Ala Phe Ile Ala Gly Asn Leu His Ser Met Ile His Val
                                      155
                   150
Gly Leu Val Phe Arg Leu Val Phe Cys Gly Ser Asn His Ile Asn His
               165
                                  170
Phe Tyr Cys Asp Ile Leu Pro Leu Tyr Arg Leu Ser Cys Val Asp Pro
                                                  190
                              185
Tyr Ile Asn Glu Leu Val Leu Phe Ile Phe Ser Gly Ser Val Gln Val
                                               205
                           200
Phe Thr Ile Gly Ser Val Leu Ile Ser Tyr Leu Tyr Ile Leu Leu Thr
                       215
                                           220
Ile Phe Lys Met Lys Ser Lys Glu Gly Arg Ala Lys Ala Phe Ser Thr
                                       235
                   230
Cys Ala Ser His Phe Leu Ser Val Ser Leu Phe Tyr Gly Ser Leu Phe
               245
                                   250
Phe Met Tyr Val Arg Pro Asn Leu Leu Glu Glu Gly Asp Lys Asp Ile
                               265
                                                   270
           260
Pro Ala Ala Ile Leu Phe Thr Ile Val Val Pro Leu Leu Asn Pro Phe
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275 280 285

Ile Tyr Ser Leu Arg Asn Arg Glu Val Ile Ser Val Leu Arg Lys Ile

Leu Met Lys Glu Ile Ile Ser Arg Arg Trp

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Val Met Tyr Leu Thr Thr Leu Leu Gly Asn Ser Thr Leu Ile Leu Ile
                           40
                                               45
Thr Ile Leu Asp Ser Arg Leu Lys Thr Pro Met Tyr Leu Phe Leu Gly
                       55
                                            60
Asn Leu Ser Phe Met Asp Ile Cys Tyr Thr Ser Ala Ser Val Pro Thr
                   70
                                        75
Leu Leu Val Asn Leu Leu Ser Ser Gln Lys Thr Ile Ile Phe Ser Gly
                                   90
               85
Cys Ala Val Gln Met Tyr Leu Ser Leu Ala Met Gly Ser Thr Glu Cys
                               105
Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn
                            120
Pro Leu Arg Tyr Ser Ile Ile Met Asn Arg Cys Val Cys Ala Arg Met
                        135
                                            140
Ala Thr Val Ser Trp Val Thr Gly Cys Leu Thr Ala Leu Leu Glu Thr
                    150
                                        155
Ser Phe Ala Leu Gln Ile Pro Leu Cys Gly Asn Leu Ile Asp His Phe
                                    170
                165
Thr Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Thr Ser Ser Leu
                               185
Leu Met Asn Thr Ile Met Leu Val Val Ser Ile Leu Leu Pro Ile
                            200
                                                205
Pro Met Leu Leu Val Cys Ile Ser Tyr Ile Phe Ile Leu Ser Thr Ile
                        215
                                           220
Leu Arg Ile Thr Ser Ala Glu Gly Arg Asn Lys Ala Phe Ser Thr Cys
                                        235
                   230
Gly Ala His Leu Thr Val Val Ile Leu Tyr Tyr Gly Ala Ala Leu Ser
               245
                                   250
Met Tyr Leu Lys Pro Ser Ser Ser Asn Ala Gln Lys Ile Asp Lys Ile
                               265
           260
Ile Ser Leu Leu Tyr Gly Val Leu Thr Pro Met Leu Asn Pro Ile Ile
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Tyr Ser Leu Arg Asn Lys Glu Val Lys Asp Ala Met Lys Lys Leu Leu
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Gly Lys Ile Thr Leu His Gln Thr His Glu His Leu
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Leu Leu Ile Tyr Leu Ile Thr Met Leu Gly Asn Val Gly Met Ile Leu
                            40
Ile Ile Arg Leu Asp Leu Gln Leu His Thr Pro Met Tyr Phe Phe Leu
                                            60
                        55
Thr His Leu Ser Phe Ile Asp Leu Ser Tyr Ser Thr Val Val Thr Pro
                    70
                                        75
Lys Thr Leu Ala Asn Leu Leu Thr Ser Asn Tyr Ile Ser Phe Thr Gly
                                    90
               85
Cys Phe Ala Gln Met Phe Phe Phe Ala Phe Leu Gly Thr Ala Glu Cys
           100
                               105
Tyr Leu Leu Ser Ser Met Ala His Asp Arg Tyr Ala Ala Ile Cys Ser
                            120
       115
Pro Leu His Tyr Thr Val Ile Met Ser Lys Arg Leu Cys Leu Ala Leu
                        135
                                            140
Ile Thr Gly Pro Tyr Val Ile Gly Phe Ile Asp Ser Phe Val Asn Val
                   150
                                       155
Val Ser Met Ser Arg Leu His Phe Tyr Asp Ser Asn Val Ile His His
                                   170
               165
Phe Phe Cys Asp Thr Ser Pro Ile Leu Ala Leu Ser Cys Thr Asp Thr
                               185
                                                   190
Tyr Asn Thr Glu Ile Leu Ile Phe Ile Ile Val Gly Ser Thr Leu Met
                           200
                                                205
       195
Val Ser Leu Phe Thr Ile Ser Ala Ser Tyr Val Phe Ile Leu Phe Thr
                       215
Ile Leu Lys Ile Asn Ser Thr Ser Gly Lys Gln Lys Ala Phe Ser Thr
                    230
                                        235
Cys Val Ser His Leu Leu Gly Val Thr Ile Phe Tyr Ser Thr Leu Ile
               245
                                    250
Phe Thr Tyr Leu Lys Pro Arg Lys Ser Tyr Ser Leu Gly Arg Asp Gln
                 265
           260
Val Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Val Leu Asn Pro Leu
                           280
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Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Val Ile Arg Val
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Met Gln Arg Arg Gln Asp Ser Arg
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Leu Phe Xaa Xaa Lys Leu Ser Lys Gln Lys Ile Tyr Trp Val Leu Thr
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                               25
Ile Phe Gly Phe Leu Glu Ala Phe Ile Ala Met Asn Lys Leu Xaa Lys
Leu Tyr Ser Ser Leu Ile Cys Leu Tyr Phe Ile Ile Xaa Ile Phe Lys
```

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Phe Ser Asn Met Phe Ile Phe Tyr Asn Met Asn Ile Ser Val His Tyr
                                       75
                   70
Phe Leu Lys Cys Ile Phe Phe Phe Cys Ile Cys Cys Leu Xaa Leu Leu
                                   90
               85
Ile Phe Asp Ser Phe Ser Thr His Pro Pro Leu Pro Leu Leu Xaa Glu
                                105
           100
Ala Asp Ile Cys Ala Asn Ser Xaa Pro Cys Tyr Thr Asn Thr Thr Ala
                            120
                                               125
Ser Xaa Xaa His Phe Tyr Ile Ile Leu Asn Phe Cys Leu Ser Tyr Xaa
                       135
                                           140
Pro Ser Val Ser Ser Met Leu Tyr Gly Arg Leu Phe Leu Met Tyr Leu
                   150
                                       155
Met Pro Glu Asn Ser Leu Asp Thr Asp Arg Met Ala Ser Val Phe Tyr
                                   170
               165
Thr Val Val Ile Pro Met Leu Asn Pro Leu Ile Trp Ser Pro Arg Asn
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                                                   190
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Lys Asp Val Thr Ser Ala Leu Arg Lys Val Met Val Asn Arg Lys Gln
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                            200
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Ala Leu Phe Cys
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            20
                                25
Ser Lys Val Ser Asp Xaa Xaa Asn Leu Leu Xaa Asn Xaa Leu Ala Phe
                            40
Ser Trp Thr Ile Arg Leu Cys Thr Thr Thr Ser Tyr Ser Asn Met Gln
                        55
                                            60
Phe Ser Phe Gln Cys Cys Met Thr Gln Tyr Pro Ala Leu Gln Ser Thr
                                        75
                    70
Phe Phe Phe Leu Gly Arg Ser Gln Val Phe Leu Leu Leu Met Ala
                85
                                    90
Tyr Asp Asn Tyr Arg Ala Ile Xaa Lys Ser Leu Gln Tyr Leu Val Val
                                105
            100
Met Lys Gln Trp Leu Cys Val Val Leu Leu Val Val Pro Trp Ala Gly
                                                125
                            120
Gly Phe Leu His Thr Val Ile Gln Leu Gly Leu Ile His Gly Leu Pro
                                            140
                        135
Ser Tyr Asp Pro Asn Val Ile Gly Arg Phe Val Cys Asp Met Asp Pro
                    150
                                        155
Leu Met Lys Leu Val Cys Asp Tyr Thr Leu Asn Arg Phe Val Tyr Phe
                                   170
Ala Gly His Asp Leu Asn Tyr Xaa Val Leu Tyr Ile Ser Phe Ile Phe
                                                    190
            180
                               185
Arg Leu Asp Cys Phe Leu Leu Val Ile Xaa Leu Trp Tyr Pro Phe Val
                                                205
                            200
        195
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Ile Phe Ser Leu Glu Arg His Asp Ser Ile Asn Leu Val Ile His Ser
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Tyr Tyr Pro Cys
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Gln Asn Pro Lys Glu Gln Lys Val Leu Phe Val Met Phe Leu Leu Phe
Tyr Ile Leu Thr Met Val Gly Asn Leu Leu Ile Val Val Thr Val Thr
                           40
Val Ser Glu Thr Leu Gly Ser Pro Met Ser Phe Phe Leu Ala Gly Leu
                       55
                                           60
Thr Phe Ile Asp Ile Ile Tyr Ser Ser Ser Ile Ser Pro Arg Leu Ile
                                       75
                   70
Ser Asp Leu Phe Phe Gly Asn Asn Ser Ile Ser Phe Gln Ser Phe Met
                                   90
               85
Ala Gln Leu Phe Ile Glu His Leu Phe Gly Gly Ser Glu Val Phe Leu
                               105
          100
Leu Leu Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
                           120
                                               125
His Tyr Leu Val Ile Met Arg Gln Trp Val Cys Val Leu Leu Val
                                           140
                       135
Val Ser Trp Val Gly Gly Phe Leu Gln Ser Val Phe Gln Leu Ser Ile
                                       155
                   150
Ile Tyr Gly Leu Pro Phe Cys Gly Pro Asn Val Ile Asp His Phe Phe
                                   170
                                                       175
Cys Asp Met Tyr Pro Leu Leu Lys Leu Ala Cys Thr Asp Thr His Val
                              185
                                                   190
           180
Ile Gly Leu Leu Val Val Ala Asn Gly Gly Leu Ser Cys Thr Ile Ala
       195
                           200
                                               205
Phe Leu Leu Leu Ile Ser Tyr Gly Val Ile Leu His Ser Leu Lys
                       215
                                           220
Lys Leu Ser Gln Lys Gly Arg Gln Lys Ala His Ser Thr Cys Ser Ser
                                       235
                   230
His Ile Thr Val Val Phe Phe Phe Val Pro Cys Ile Phe Met Cys
                                   250
               245
Ala Arg Pro Ala Arg Thr Phe Ser Ile Asp Lys Ser Val Ser Val Phe
                              265
                                                  270
           260
Tyr Thr Val Ile Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg
                           280
                                               285
Asn Ser Glu Met Thr Ser Ala Met Lys Lys Leu
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Phe Leu Leu Val Tyr Leu Leu Asn Leu Thr Gly Asn Val Leu Ile Val
                            40
Gly Val Val Arg Ala Asp Thr Arg Leu Gln Thr Pro Met Tyr Phe Phe
                        55
Leu Gly Asn Leu Ser Cys Leu Glu Ile Leu Leu Thr Ser Val Ile Ile
                                        75
                    70
Pro Lys Met Leu Ser Asn Phe Leu Ser Arg Gln His Thr Ile Ser Phe
                                    90
                85
Ala Ala Cys Ile Thr Gln Phe Tyr Phe Tyr Phe Phe Leu Gly Ala Ser
                                105
Glu Phe Leu Leu Leu Ala Val Met Ser Ala Asp Arg Tyr Leu Ala Ile
                           120
                                                125
Cys His Pro Leu Arg Tyr Pro Leu Leu Met Ser Gly Ala Val Cys Phe
                       135
                                            140
Arg Val Ala Leu Ala Cys Trp Val Gly Gly Leu Val Pro Val Leu Gly
                                        155
                   150
Pro Thr Val Ala Val Ala Leu Leu Pro Phe Cys Lys Gln Gly Ala Val
               165
                                    170
Val Gln His Phe Phe Cys Asp Ser Gly Pro Leu Leu Arg Leu Ala Cys
                                                    190
                                185
           180
Thr Asn Thr Lys Lys Leu Glu Glu Thr Asp Phe Val Leu Ala Ser Leu
                                                205
                            200
Val Ile Val Ser Ser Leu Leu Ile Thr Ala Val Ser Tyr Gly Leu Ile
                                            220
                        215
Val Leu Ala Val Leu Ser Ile Pro Ser Ala Ser Gly Arg Gln Lys Ala
                                        235
                   230
Phe Ser Thr Cys Thr Ser His Leu Ile Val Val Thr Leu Phe Tyr Gly
                                    250
                245
Ser Ala Ile Phe Leu Tyr Val Arg Pro Ser Gln Ser Gly Ser Val Asp
                                                    270
                                265
           260
Thr Asn Trp Ala Val Thr Val Ile Thr Thr Phe Val Thr Pro Leu Leu
                            280
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Asn Pro Phe Ile Tyr Ala Leu Arg Asn Glu Gln Val Lys Glu Ala Leu
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Lys Asp Met Phe Arg Lys Val Val Ala Gly Val
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Ser Phe Phe Glu Tyr Leu Met Thr Xaa Xaa Lys Lys Tyr Gly Ser Ile
           20
Cys Ser Thr Met Leu Val Ser Ile Arg Ile Lys Tyr Leu Glu Val Phe
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40

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Ala Glu Asn Leu Phe Gly Ala Ala Glu Ile Ile Pro Leu Met Trp Met
                        55
                                            60
Val His Gly Cys Tyr Val Thr Val Cys Asn Tyr Met Thr Ile Val Asn
                    70
                                        75
Gln Tyr Arg Cys Ser His Leu Thr Gly Met Ala Trp Thr Glu Ser Phe
                85
                                    90
Ile His Gly Thr Val Xaa Ile Leu Ser Pro Val Xaa Leu Pro Phe Tyr
            100
                                105
Asp Pro Asn Val Ile Ala His Phe Met Cys Asp Leu Asn Thr Phe Leu
                            120
                                                125
Lys Leu Cys Met Gly Thr Thr Asn Thr Ile Gly Phe Phe Val Ala
                        135
                                            140
Ala Asn Gly Gly Phe Asn Tyr Leu Leu Asn Ile Ile Phe Leu Met Val
                    150
                                        155
Ser Xaa Val Ala Ile Leu Cys Thr Leu Lys Thr His Ser Leu Glu Glu
                165
                                   170
Arg Cys Xaa Ser Leu Ser Thr Cys Ile Ser His Thr Thr Met Val Ile
           180
                               185
                                                    190
Leu Phe Phe Glu Phe Cys Ile Ser Val Tyr Leu Cys Pro Val Thr Leu
                            200
                                                205
Leu Pro Ile Asn Lys Ala Met Ala Val Phe His Thr Val Ile Asn Pro
                        215
Met Leu Lys Pro Leu Val Tyr Thr Leu Arg Asn Ala Glu Val Lys Ser
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Ala Leu Arg Lys Val Trp Val Lys Arg Xaa Pro Glu Glu Arg Asn Asn
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Leu Asn Ile Arg
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<210> 1634
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<400> 1634

Met Glu Trp Glu Asn His Thr Ile Leu Val Glu Phe Phe Leu Lys Gly 10 Leu Ser Gly His Pro Arg Leu Glu Leu Leu Phe Phe Val Leu Ile Phe 25 Ile Met Tyr Val Val Ile Leu Leu Gly Asn Gly Thr Leu Ile Leu Ile 35 40 Ser Ile Leu Asp Pro His Leu His Thr Pro Met Tyr Phe Phe Leu Gly 55 60 Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Thr Ser Ile Pro Ser 75 Thr Leu Val Ser Phe Leu Ser Glu Arg Lys Thr Ile Ser Leu Ser Gly 90 Cys Ala Val Gln Met Phe Leu Ser Leu Ala Met Gly Thr Thr Glu Cys 100 105 Val Leu Leu Gly Val Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn 120 Pro Leu Arg Tyr Pro Ile Ile Met Ser Lys Asp Ala Tyr Val Pro Met 135 140 Ala Ala Gly Ser Trp Ile Ile Gly Ala Val Asn Ser Ala Val Gln Thr 150 155 Val Phe Val Val Gln Leu Pro Phe Cys Arg Asn Asn Ile Ile Asn His 170 Phe Thr Cys Glu Ile Leu Ala Val Met Lys Leu Ala Cys Ala Asp Ile

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185
Ser Gly Asn Glu Phe Ile Leu Leu Val Thr Thr Thr Leu Phe Leu Leu
                            200
                                                205
Thr Pro Leu Leu Ile Ile Val Ser Tyr Thr Leu Ile Ile Leu Ser
                        215
                                            220
Ile Phe Lys Ile Ser Ser Ser Glu Gly Arg Ser Lys Pro Ser Ser Thr
                    230
                                        235
Cys Ser Ala Arg Leu Thr Val Val Ile Thr Phe Cys Gly Thr Ile Phe
                245
                                    250
Leu Met Tyr Met Lys Pro Lys Ser Gln Glu Thr Leu Asn Ser Asp Asp
                                265
Leu Asp Ala Thr Asp Lys Leu Ile Phe Ile Phe Tyr Arg Val Met Thr
                           280
                                                285
Pro Met Met Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys
                       295
Glu Ala Val Lys His Leu Leu Arg Arg Lys Asn Phe Asn Lys
                    310
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<223> Xaa = Any Amino Acid
<400> 1635
Met Glu Arg Thr Asn Trp Thr Glu Ile Glu Phe Ile Leu Gln Gly Leu
                5
                                    10
Ser Gly Tyr Pro Arg Ala Glu Lys Phe Leu Phe Val Met Cys Leu Val
            20
                                                    30
                                25
Met Tyr Leu Val Ile Leu Leu Gly Asn Gly Thr Leu Ile Ile Leu Thr
                            40
Leu Leu Asp Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn
                        55
                                            60
Leu Ser Phe Leu Asp Ile Trp Tyr Thr Ser Ser Ser Ile Pro Ser Met
                    70
                                        75
Leu Ile His Phe Leu Ser Glu Lys Lys Thr Ile Ser Phe Thr Arg Cys
                                    90
Val Ile Gln Met Ser Val Ser Tyr Thr Met Gly Ser Thr Glu Cys Val
                                105
Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro
                            120
                                                125
Leu Arg Tyr Pro Ile Ile Met Gly Lys Ala Leu Cys Ile Gln Met Val
                       135
                                           140
Ala Val Ser Trp Gly Leu Gly Phe Leu Asn Ser Leu Thr Glu Thr Val
                   150
                                       155
Leu Ala Ile Arg Leu Pro Phe Cys Gly Lys Asn Val Ile Asn His Phe
                165
                                    170
Val Cys Glu Ile Leu Ala Phe Val Lys Leu Ala Cys Thr Asp Thr Ser
                                185
Leu Asn Glu Ile Ile Met Leu Gly Asn Val Ile Phe Leu Phe Ser
                            200
Pro Leu Leu Ile Cys Ile Ser Tyr Ile Phe Ile Leu Ser Thr Val
                       215
                                           220
Leu Arg Ile Asn Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys
                                       235
                    230
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Ser Ala His Met Thr Val Val Ile Val Phe Tyr Gly Thr Ile Leu Phe
                                    250
Met Tyr Met Lys Ala Lys Ser Lys Asp Ser Ala Phe Asp Lys Leu Ile
                                                    270
                                265
Ala Leu Phe Tyr Gly Ile Val Thr Pro Met Leu Asn Pro Ile Ile Tyr
                            280
        275
Ser Leu Arg Asn Thr Glu Val His Gly Ala Met Arg Lys Leu Met Ser
                                           300
                        295
Arg His Leu Val Leu Glu Glu Met Met Thr His Xaa His Leu Xaa Val
                   310
                                       315
Tyr Ala Gln Asn Thr Leu Thr Ser Leu Arg Gln His Phe
               325
<210> 1636
<211> 322
<212> PRT
<213> Unknown (H38g553 protein)
<223> Synthetic construct
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<221> VARIANT

<222> (1)...(322)

<223> Xaa = Any Amino Acid

<400> 1636 His Thr Glu Pro Trp Asn Leu Thr Asp Val Xaa Glu Phe Leu Leu 10 1 5 Gly Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Ala Leu Leu Ser 30 20 25 Leu Ser Leu Ser Met Cys Leu Val Met Val Leu Arg Asn Leu Leu Ser 45 40 Ile Leu Ala Val Ser Ser Val Ser Pro Leu His Thr Pro Val Tyr Phe 55 Phe Leu Ser Lys Leu Cys Trp Ala Asp Ile Gly Phe Thr Leu Ala Thr 70 75 Val Pro Lys Met Ile Val Asp Met Gln Ser His Ser Arg Val Ile Ser 90 85 His Ala Gly Cys Leu Thr Gln Met Ser Phe Phe Ile Leu Phe Ala Cys 110 100 105 Ile Glu Gly Met Leu Leu Thr Val Met Ala Tyr Asp Cys Phe Val Ala 125 120 Ile Cys Arg Pro Leu His Tyr Pro Val Ile Val Asn Pro His Leu Cys 140 135 Val Ser Phe Leu Leu Val Ser Phe Phe Leu Ser Met Leu Asp Ser Gln 150 155 Leu His Ser Xaa Ile Val Leu Gln Phe Thr Ile Ile Lys Asn Val Glu 170 Ile Ser Asn Phe Val Cys Asp Pro Ser Gln Leu Leu Lys Leu Ala Cys 185 190 180 Ser Asp Ser Val Ile Asn Ser Ile Phe Ile Tyr Phe Asn Ser Thr Met 205 200 195 Phe Gly Phe Leu Pro Ile Ser Gly Ile Leu Trp Ser Tyr Cys Lys Ile 215 220 Val Pro Ser Ile Leu Arg Ile Ser Ser Ser Asp Gly Lys Tyr Lys Ala 235 230 Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Cys Xaa Phe Tyr Arg 250 245 Thr Gly Ile Gly Met Tyr Leu Thr Ser Ala Val Ser Pro Pro Pro Arg 265 270 Asn Gly Val Val Ala Ser Ala Met Phe Ser Val Val Thr Pro Met Leu

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280
                                               285
Asn Leu Phe Ile Tyr Ser Leu Arg Asn Arg Asp Ile Gln Ser Ala Leu
                                           300
                       295
Arg Arg Leu Leu Ser Arg Thr Val Glu Ser Tyr Asp Leu Phe His Pro
                                        315
305
                   310
Phe Ser
<210> 1637
<211> 312
<212> PRT
<213> Unknown (H38g554 protein)
<223> Synthetic construct
<400> 1637
Met Ala Gly Glu Asn His Thr Thr Leu Pro Glu Phe Leu Leu Gly
                                   10
Phe Ser Asp Leu Lys Ala Leu Gln Gly Pro Leu Phe Trp Val Val Leu
                               25
Leu Val Tyr Leu Val Thr Leu Leu Gly Asn Ser Leu Ile Ile Leu Leu
                           40
Thr Gln Val Ser Pro Ala Leu His Ser Pro Met Tyr Phe Phe Leu Arg
                       55
                                           60
Gln Leu Ser Val Val Glu Leu Phe Tyr Thr Thr Asp Ile Val Pro Arg
                                       75
                   70
Thr Leu Ala Asn Leu Gly Ser Pro His Pro Gln Ala Ile Ser Phe Gln
               85
                                   90
Gly Cys Ala Ala Gln Met Tyr Val Phe Ile Val Leu Gly Ile Ser Glu
                               105
                                                   110
Cys Cys Leu Leu Thr Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys
                                               125
      115
                           120
Gln Pro Leu Arg Tyr Ser Thr Leu Leu Ser Pro Arg Ala Cys Met Ala
                       135
                                           140
Met Val Gly Thr Ser Trp Leu Thr Gly Ile Ile Thr Ala Thr Thr His
                   150
                                        155
Ala Ser Leu Ile Phe Ser Leu Pro Phe Arg Ser His Pro Ile Ile Pro
               165
                                   170
His Phe Leu Cys Asp Ile Leu Pro Val Leu Arg Leu Ala Ser Ala Gly
                                                    190
           180
                               185
Lys His Arg Ser Glu Ile Ser Val Met Thr Ala Thr Ile Val Phe Ile
                           200
Met Ile Pro Phe Ser Leu Ile Val Thr Ser Tyr Ile Arg Ile Leu Gly
                                           220
                       215
Ala Ile Leu Ala Met Ala Ser Thr Gln Ser Arg Arg Lys Val Phe Ser
                   230
                                       235
Thr Cys Ser Ser His Leu Leu Val Val Ser Leu Phe Phe Gly Thr Ala
                                   250
                                                        255
               245
Ser Ile Thr Tyr Ile Arg Pro Gln Ala Gly Ser Ser Val Thr Thr Asp
          260
                               265
                                                   270
Arg Val Leu Ser Leu Phe Tyr Thr Val Ile Thr Pro Met Leu Asn Pro
                           280
                                               285
       275
Ile Ile Tyr Thr Leu Arg Asn Lys Asp Val Arg Arg Ala Leu Arg His
                       295
                                           300
Leu Val Lys Arg Gln Arg Pro Ser
                   310
<210> 1638
<211> 310
<212> PRT
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888

<213> Unknown (H38g555 protein) <220> <223> Synthetic construct <400> 1638 Met Ala Gly Asn Asn Phe Thr Glu Val Thr Val Phe Ile Leu Ser Gly 10 Phe Ala Asn His Pro Glu Leu Gln Val Ser Leu Phe Leu Met Phe Leu Phe Ile Tyr Leu Phe Thr Val Leu Gly Asn Leu Gly Leu Ile Thr Leu Ile Arg Met Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser 55 60 Asn Leu Ala Phe Ile Asp Ile Phe Tyr Ser Ser Thr Val Thr Pro Lys 75 Ala Leu Val Asn Phe Gln Ser Asn Arg Arg Ser Ile Ser Phe Val Gly 90 Cys Phe Val Gln Met Tyr Phe Phe Val Gly Leu Val Cys Cys Glu Cys 105 Phe Leu Leu Gly Ser Met Ala Tyr Asn Arg Tyr Ile Ala Ile Cys Asn 120 Pro Leu Leu Tyr Ser Val Val Met Ser Gln Lys Val Ser Asn Trp Leu 135 140 Gly Val Met Pro Tyr Val Ile Gly Phe Thr Ser Ser Leu Ile Ser Val 150 155 Trp Val Ile Ser Ser Leu Ala Phe Cys Asp Ser Ser Ile Asn His Phe 170 Phe Cys Asp Thr Thr Ala Leu Leu Ala Leu Ser Cys Val Asp Thr Phe 180 185 Gly Thr Glu Met Val Ser Phe Val Leu Ala Gly Phe Thr Leu Leu Ser 200 205 Ser Leu Leu Ile Ile Thr Val Thr Tyr Ile Ile Ile Ser Ala Ile 215 220 Leu Arg Ile Gln Ser Ala Ala Gly Arg Gln Lys Ala Phe Ser Thr Cys 230 235 Ala Ser His Leu Met Ala Val Thr Ile Phe Tyr Gly Ser Leu Ile Phe 245 250 Thr Tyr Leu Gln Pro Asp Asn Thr Ser Ser Leu Thr Gln Ala Gln Val 260 270 265 Ala Ser Val Phe Tyr Thr Ile Val Ile Pro Met Leu Asn Pro Leu Ile 280 285 Tyr Ser Leu Arg Asn Lys Asp Val Lys Asn Ala Leu Leu Arg Val Ile 295 His Arg Lys Leu Phe Pro 310 <210> 1639 <211> 157 <212> PRT <213> Unknown (H38g556 protein) <220> <223> Synthetic construct <400> 1639 Ile Cys Ser Pro Leu Leu Tyr Ser Val Ile Ile Ser Asn Lys Ala Cys 10 Phe Ser Leu Ile Leu Gly Val Tyr Ile Ile Gly Leu Val Cys Ala Ser Val His Thr Gly Cys Met Phe Arg Val Gln Phe Cys Lys Phe Asp Leu

```
40
Ile Asn His Tyr Phe Cys Asp Leu Leu Pro Leu Leu Lys Leu Ser Cys
                        55
Ser Ser Ile Tyr Val Asn Lys Leu Leu Ile Leu Cys Val Gly Ala Phe
                    70
                                        75
Asn Ile Leu Val Pro Ser Leu Thr Ile Leu Cys Ser Tyr Ile Phe Ile
                85
                                    90
Ile Ala Ser Ile Leu His Ile Arg Ser Thr Glu Gly Arg Ser Lys Ala
                                105
            100
Phe Ser Thr Cys Ser Ser His Met Leu Ala Val Ile Phe Phe Gly
                            120
Ser Ala Ala Phe Met Tyr Leu Gln Pro Ser Ser Ile Ser Ser Met Asp
                       135
Gln Gly Lys Val Ser Ser Val Phe Tyr Thr Ile Ile Val
                    150
<210> 1640
<211> 178
<212> PRT
<213> Unknown (H38g557'protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(178)
<223> Xaa = Any Amino Acid
<400> 1640
Leu Ala Pro Ser Ser Ser Leu Ala Leu Gly Thr Trp Arg Trp Gln Trp
                                    10
His Ser Met Thr Glu Leu Val Leu Val Leu Ser Gly Phe Gly Ser
           20
                               25
                                                    30
Val Arg Gly Leu Leu Phe Trp Ala Val Leu Cys Lys His Leu Val Thr
                            40
                                                45
Leu Leu Asp Asn Ser Leu Ile Val Val Leu Ala Leu Val Ser Leu Cys
                        55
Leu Arg Trp Pro Thr His Phe Leu Leu His His Phe Ser Leu Gly Glu
                    70
Val Pro Arg His Ser Gly Gly Val Ser Asp Ala Gly Arg Phe Pro Ser
                85
                                    90
Pro Ala Ala Leu Ala His Arg Xaa Ala Ala Ser Arg Cys Trp Val Phe
                                                    110
                                105
Phe Ala Leu Pro Gly Ile Ala Glu Cys Cys Leu Arg Arg Ala Met Ala
                            120
                                                125
Tyr Arg Arg Cys Asp Ala Ile Cys Arg Pro Leu His Ser Thr Thr Xaa
                        135
Gly Ala Leu Val Phe Arg Ala Arg Phe Ala Phe Thr Leu Pro Phe Cys
                   150
                                        155
Gly Ala Ala Arg Thr Arg Tyr Phe Arg Leu Asp Ser Arg Pro Val Leu
               165
                                    170
Arg Pro
<210> 1641
<211> 314
<212> PRT
<213> Unknown (H38g558 protein)
<220>
<223> Synthetic construct
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<400> 1641
Met Thr Arg Lys Asn Tyr Thr Ser Leu Thr Glu Phe Val Leu Leu Gly
 1
Leu Ala Asp Thr Leu Glu Leu Gln Ile Ile Leu Phe Leu Phe Phe Leu
                                25
Val Ile Tyr Thr Leu Thr Val Leu Gly Asn Leu Gly Met Ile Leu Leu
                           40
                                                45
Ile Arg Ile Asp Ser Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ala
                                            60
                       55
Asn Leu Ser Phe Val Asp Val Cys Asn Ser Thr Thr Ile Thr Pro Lys
                   70
                                        75
Met Leu Ala Asp Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Ala Gly
               85
                                    90
Cys Phe Leu Gln Met Tyr Phe Phe Ile Ser Leu Ala Thr Thr Glu Cys
           100
                               105
Ile Leu Phe Gly Leu Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Arg
                                               125
                          120
Pro Leu Leu Tyr Ser Leu Ile Met Ser Arg Thr Val Tyr Leu Lys Met
                                           140
                       135
Ala Ala Gly Ala Phe Ala Ala Gly Leu Leu Asn Phe Met Val Asn Thr
                                       155
                   150
Ser His Val Ser Ser Leu Ser Phe Cys Asp Ser Asn Val Ile His His
                                  170
               165
Phe Phe Cys Asp Ser Pro Pro Leu Phe Lys Leu Ser Cys Ser Asp Thr
         180
                               185
                                                    190
Ile Leu Lys Glu Ser Ile Ser Ser Ile Leu Ala Gly Val Asn Ile Val
                           200
                                               205
       195
Gly Thr Leu Leu Val Ile Leu Ser Ser Tyr Ser Tyr Val Leu Phe Ser
                                           220
                       215
Ile Phe Ser Met His Ser Gly Glu Gly Arg His Arg Ala Phe Ser Thr
                                        235
                   230
Cys Ala Ser His Leu Thr Ala Ile Ile Leu Phe Tyr Ala Thr Cys Ile
                                   250
               245
Tyr Thr Tyr Leu Arg Pro Ser Ser Ser Tyr Ser Leu Asn Gln Asp Lys
                                                  270
           260
                               265
Val Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu
                          280
Ile Tyr Ser Leu Arg Ser Lys Glu Val Lys Lys Ala Leu Ala Asn Val
                       295
                                           300
Ile Ser Arg Lys Arg Thr Ser Ser Phe Leu
                   310
<210> 1642
<211> 314
<212> PRT
<213> Unknown (H38g559 protein)
<220>
<223> Synthetic construct
<400> 1642
Met Thr Arg Lys Asn Tyr Thr Ser Leu Thr Glu Phe Ile Leu Leu Gly
                5
                                    10
Leu Ala Asp Thr Leu Glu Leu Gln Ile Ile Leu Phe Leu Phe Leu
           20
                                25
Val Ile Tyr Thr Leu Thr Val Leu Gly Asn Ile Gly Met Ile Leu Leu
                           40
Ile Arg Ile Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Val
                                            60
Asn Leu Ser Phe Val Asp Ile Cys Tyr Ser Thr Thr Ile Thr Pro Lys
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65
                    70
Met Leu Ala Asp Leu Leu Ser Glu Lys Lys Thr Ile Ser Phe Ala Gly
                85
                                    90
Cys Phe Leu Gln Met Tyr Phe Phe Ile Ala Leu Ala Thr Thr Glu Cys
                                105
Ile Leu Phe Gly Leu Met Ala Tyr Asp Arg Tyr Val Thr Ile Cys Arg
                            120
                                                125
Pro Leu Leu Tyr Ser Leu Ile Met Ser Arg Thr Val Cys Leu Lys Met
                        135
                                            140
Ala Ala Gly Ala Phe Ala Ala Gly Leu Leu Asn Ser Met Val Asn Thr
                                        155
Ser Tyr Val Ser Ser Leu Ser Phe Cys Gly Ser Asn Val Ile His His
                                    170
Phe Phe Cys Asn Ser Pro Pro Leu Phe Lys Leu Ser Cys Ser Asp Thr
           180
                                185
His Leu Lys Glu Ser Ile Phe Ser Thr Phe Ala Gly Val Asn Lys Val
                            200
                                                205
Gly Ala Leu Leu Val Ile Leu Ser Ser Tyr Ser Tyr Val Leu Phe Ser
                        215
                                            220
Ile Phe Ser Met His Ser Gly Glu Gly Arg His Arg Ala Phe Ser Thr
                    230
                                        235
Cys Ala Ser His Leu Thr Ala Ile Ile Leu Phe Tyr Thr Thr Ser Ile
                                    250
Tyr Thr Tyr Leu Arg Pro Ser Ser Ser Tyr Ser Leu Asn Gln Asp Lys
            260
                                265
                                                    270
Val Val Ser Val Phe Tyr Thr Val Val Ile Pro Ile Leu Asn Pro Leu
       275
                            280
                                                285
Ile Tyr Ser Leu Arg Asn Lys Glu Val Lys Lys Ala Leu Ala Asn Val
                       295
                                            300
Ile Ser Arg Lys Arg Ile Pro Ser Phe Leu
                    310
<210> 1643
<211> 314
<212> PRT
<213> Unknown (H38g560 protein)
<220>
<223> Synthetic construct
<221> VARIANT
<222> (1)...(314)
<223> Xaa = Any Amino Acid
<400> 1643
Met Ser Gly Glu Asn Val Thr Lys Val Ser Thr Phe Ile Leu Val Gly
                                    10
Leu Pro Thr Ala Pro Gly Leu Gln Tyr Leu Leu Phe Leu Leu Phe Leu
            20
                                25
Leu Thr Tyr Leu Phe Val Leu Val Glu Asn Leu Ala Ile Ile Leu Ile
                            40
Val Trp Ser Ser Thr Ser Leu His Arg Pro Met Tyr Tyr Phe Leu Ser
                        55
                                            60
Ser Met Ser Phe Leu Glu Ile Trp Tyr Val Ser Asp Ile Thr Pro Lys
Met Leu Glu Gly Phe Leu Leu Gln Gln Lys Arg Ile Ser Phe Val Gly
Cys Met Thr Gln Leu Tyr Phe Phe Ser Ser Leu Val Cys Thr Glu Cys
           100
                                105
Val Leu Leu Ser Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His
```

120

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Pro Leu Arg Tyr His Val Leu Val Thr Ala Gly Leu Cys Val Gln Leu
                         135
  Val Gly Phe Ser Phe Val Ser Gly Phe Ser Ile Ser Met Ile Lys Val
                      150
                                          155
  Cys Phe Ile Ser Ser Val Thr Phe Cys Gly Ser Asn Val Leu Asn His
                  165
                                      170
  Phe Phe Cys Asp Ile Ser Pro Ile Leu Lys Leu Ala Cys Thr Asp Phe
             180
                                  185
  Ser Thr Ala Glu Leu Val Asp Phe Ile Leu Ala Phe Ile Ile Leu Val
                              200
                                                  205
  Phe Pro Leu Leu Ala Thr Ile Leu Ser Tyr Trp His Ile Thr Leu Ala
                          215
                                              220
  Val Leu Arg Ile Pro Ser Ala Thr Gly Cys Trp Arg Ala Phe Ser Thr
                     230
                                          235
  Cys Ala Ser His Leu Thr Val Val Thr Val Phe Tyr Thr Ala Leu Leu
                 245
                                     250
  Phe Met Tyr Val Arg Pro Gln Ala Ile Asp Ser Gln Ser Ser Asn Lys
                                 265
 Leu Ile Ser Ala Val Tyr Thr Val Val Thr Pro Ile Ile Asn Pro Leu
                            280
                                                 285
 Ile Tyr Cys Leu Arg Asn Lys Glu Phe Lys Asp Ala Leu Lys Lys Ala
                        295
 Leu Gly Leu Gly Gln Thr Ser His Xaa Asp
 <210> 1644
 <211> 214
 <212> PRT
 <213> Unknown (H38g561 protein)
 <220>
 <223> Synthetic construct
 <400> 1644
 Leu Ala Asp Leu Cys Phe Ser Thr Asn Ile Val Pro Gln Ala Leu Val
                                     10
 His Leu Leu Ser Arg Lys Lys Val Ile Val Phe Thr Leu Cys Ala Ala
             20
                                 25
Arg Leu Leu Phe Leu Leu Ile Gly Gly Cys Thr Gln Cys Ala Leu Leu
                             40
                                                45
Gly Val Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro Leu Arg
                        55
                                             60
Tyr Pro Asn Ile Met Thr Trp Lys Val Cys Val Gln Leu Ala Thr Ala
                    70
Pro Trp Thr Ser Gly Ile Leu Val Ser Val Val Asp Thr Thr Phe Thr
                85
                                    90
Leu Arg Leu Pro Tyr Arg Gly Ser Asn Ser Ile Ala His Phe Trp Cys
            100
                                105
Glu Ala Pro Ala Leu Leu Ile Leu Ala Ser Thr Asp Thr His Ala Ser
                            120
                                                125
Glu Met Ala Ile Phe Leu Thr Gly Val Val Ile Leu Leu Ile Pro Val
                        135
                                            140
Phe Leu Ile Leu Val Ser Tyr Gly Arg Ile Ile Val Thr Val Val Lys
                    150
                                        155
Met Lys Ser Thr Val Gly Ser Leu Lys Ala Phe Ser Thr Cys Gly Ser
                165
                                    170
His Leu Met Val Val Ile Leu Phe Tyr Gly Ser Ala Ile Ile Thr Tyr
                                185
Met Thr Pro Lys Ser Ser Lys Gln Gln Glu Lys Ser Val Ser Val Phe
                            200
Tyr Pro Ile Val Thr Pro
```

210

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```
<210> 1645
<211> 316
<212> PRT
<213> Unknown (H38g562 protein)
<223> Synthetic construct
<400> 1645
Met Leu Glu Ser Asn Tyr Thr Met Pro Thr Glu Phe Leu Phe Val Gly
                                   10
Phe Thr Asp Tyr Leu Pro Leu Arg Val Thr Leu Phe Leu Val Phe Leu
                               25
           20
Leu Val Tyr Thr Leu Thr Met Val Gly Asn Ile Leu Leu Ile Ile Leu
                          40
Val Asn Ile Asn Ser Ser Leu Gln Ile Pro Met Tyr Tyr Phe Leu Ser
                                           60
                       55
Asn Leu Ser Phe Leu Asp Ile Ser Cys Ser Thr Ala Ile Thr Pro Lys
                                       75
Met Leu Ala Asn Phe Leu Ala Ser Arg Lys Ser Ile Ser Pro Tyr Gly
                                   90
Cys Ala Leu Gln Met Phe Phe Phe Ala Ser Phe Ala Asp Ala Glu Cys
                              105
            100
Leu Ile Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Asn
                                               125
                          120
Pro Leu Leu Tyr Thr Thr Leu Met Ser Arg Arg Val Cys Val Cys Phe
                      135
                                          140
Ile Val Leu Ala Tyr Phe Ser Gly Ser Thr Thr Ser Leu Val His Val
                              155
                  150
Cys Leu Thr Phe Arg Leu Ser Phe Cys Gly Ser Asn Ile Val Asn His
                                  170
              165
Phe Phe Cys Asp Ile Pro Pro Leu Leu Ala Leu Ser Cys Thr Asp Thr
                               185
          180
Gln Ile Asn Gln Leu Leu Phe Ala Leu Cys Ser Phe Ile Gln Thr
                                               205
                           200
Ser Thr Phe Val Val Ile Phe Ile Ser Tyr Phe Cys Ile Leu Ile Thr
                                           220
                       215
Val Leu Ser Ile Lys Ser Ser Gly Gly Arg Ser Lys Thr Phe Ser Thr
                                       235
                   230
Cys Ala Ser His Leu Ile Ala Val Thr Leu Phe Tyr Gly Ala Leu Leu
                245
                                   250
Phe Met Tyr Leu Gln Pro Thr Thr Ser Tyr Ser Leu Asp Thr Asp Lys
                               265
Val Val Ala Val Phe Tyr Thr Val Val Phe Pro Met Phe Asn Pro Ile
                                               285
                          280
Ile Tyr Ser Phe Arg Asn Lys Asp Val Lys Asn Ala Leu Lys Lys Leu
                    295
Leu Glu Arg Ile Gly Tyr Ser Asn Glu Trp Tyr Leu
                   310
<210> 1646
<211> 314
<212> · PRT
<213> Unknown (H38g563 protein)
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<223> Synthetic construct

<221> VARIANT